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1037	HUSGC38	882527	1047	82 - 600	2452	His-156 to Ile-172.			AR033: 7, AR060: 4, AR052: 3, AR089: 3, AR096: 3, AR104: 2, AR055: 2, AR061: 2, AR053: 1 L0779: 10, H0547: 9, L0770: 7, L0659: 7, L0754: 7, S0010: 6, L0439: 6, L0740: 6, L0663: 5, H0013: 4, L0809: 4, H0539: 4, L0747: 4, L0756: 4, L0731: 4, L0759: 4, S0360: 3, H0156: 3, H0581: 3, H0090: 3, H0412: 3, H0494: 3, S0438: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, S0434: 3, L0593: 3, H0542: 3, S0282: 2, S0356: 2, H0486: 2, S0049: 2, H0046: 2, L0471: 2, S0003: 2, H0428: 2, H0616: 2, T0042: 2, S0440: 2, S0150: 2,			130-153, 51-68, 24- 44, 98- 114, 3-19	

1038	HLHAN77	882559	1048	144 - 581	2453	Phe-17 to Asp-37, Thr-51 to Leu-67, Asn-70 to Thr-78.	L0803: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0792: 1, L0664: 1, H0144: 1, H0711: 1, H0684: 1, H0660: 1, H0672: 1, H0521: 1, H0696: 1, H0627: 1, L0742: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0589: 1, L0591: 1, L0608: 1, L0594: 1, H0653: 1, H0667: 1, H0543: 1, H0423: 1 and S0424: 1. AR096: 2, AR055: 1, AR053: 1, AR089: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR033: 0 T0006: 2, L0439: 2, L0750: 2, L0785: 1, S0360: 1, S0222: 1, H0586: 1, L0622: 1, H0620: 1, H0024: 1, H0594: 1, H0606: 1, L0770: 1, L0771: 1, L0794: 1, L0649: 1, L0805: 1, L0653: 1, L0659: 1, L0791: 1, L0666: 1, L0753: 1 and L0758: 1.						76-108
1039	HFPKI70	882564	1049	107 -	2454	Arg-24 to His-31,	AR096: 8, AR055: 7, L0758: 1.						29-50, 63-

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1040	HDRMD17	882582	1050	116 - 523	2455	Lys-68 to Gly-76.	AR053: 1, AR033: 1, AR104: 1, AR089: 1, AR060: 0, AR061: 0, AR096: 0, AR055: 0, AR052: 0, AR039: 0			17-40, 41- 66, 102- 118, 84- 100
1041	HEMDM1 6	882648	1051	15 - 677	2456	Phe-10 to Lys-15.	AR089: 18, AR096: 17, AR060: 16, AR104: 13, AR033: 13, AR039: 12, AR052: 11, AR053: 9, AR055: 7, AR061: 5 L0759: 8, L0731: 7, H0521: 5, L0005: 4, S0358: 3, L0157: 3, L0757: 3, S0046: 2, H0494: 2, L0662: 2, L0740: 2, L0755: 2, H0657: 1, H0341: 1, H0663: 1, H0638: 1, S0376: 1, S0132: 1, H0549: 1, H0586: 1, H0590: 1, H0024: 1, H0071: 1, H0083: 1, H0252: 1, H0090: 1, H0591: 1,			162-178

1042	HODGL52	882663	1052	62 - 517	2457	Ser-120 to Ala-125, Glu-143 to Tyr-152.	H0551: 1, H0059: 1, H0529: 1, L0389: 1, L0775: 1, L0776: 1, L0783: 1, L0665: 1, L0438: 1, H0547: 1, H0435: 1, S0378: 1, S0037: 1, L0439: 1, S0434: 1, L0596: 1, L0592: 1, L0604: 1, H0667: 1, H0543: 1 and H0422: 1. AR089: 13, AR055: 11, AR060: 9, AR096: 8, AR033: 7, AR061: 7, AR053: 5, AR052: 5, AR039: 5, AR104: 2 H0046: 6, L0770: 6, H0402: 5, L0749: 5, L0731: 5, S0358: 4, L0771: 4, L0740: 4, H0617: 3, L0769: 3, L0783: 3, H0670: 3, L0747: 3, S0192: 3, S0476: 2, H0549: 2, H0581: 2, H0271: 2, H0328: 2, L0772: 2, L0532: 2, L0663: 2, L0438: 2, H0684: 2, H0539: 2, L0748: 2, L0439: 2, L0750: 2, L0757: 2, H0624: 1, L0785: 1, H0580: 1, S0046: 1, S0132: 1, H0351: 1, H0370: 1, H0455: 1, H0299: 1, H0586: 1, H0331:				52-76, 86- 106, 9-25, 29-45
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1043	HSLGA24	882690	1053	83 - 490	2458	Pro-7 to Arg-12, Glu-18 to Ser-24, Ser-32 to Glu-38, Asp-103 to Arg-111.	1, H0485: 1, H0486: 1, T0082: 1, H0618: 1, H0253: 1, H0544: 1, H0546: 1, H0545: 1, H0620: 1, H0083: 1, H0266: 1, H0252: 1, H0615: 1, H0598: 1, H0163: 1, H0038: 1, H0040: 1, H0551: 1, H0059: 1, L0639: 1, L0667: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0526: 1, L0809: 1, L0543: 1, L0647: 1, L0666: 1, L0665: 1, S0216: 1, S0374: 1, H0547: 1, H0519: 1, H0711: 1, H0658: 1, H0660: 1, S0152: 1, S0350: 1, H0696: 1, S0044: 1, S0406: 1, H0436: 1, S0037: 1, S0028: 1, L0743: 1, L0744: 1, L0759: 1 and S0436: 1.					112-136, 42-62
1044	HMHBT84	882784	1054	406 - 948	2459	Met-1 to Leu-6, Pro-13 to Ala-18,	AR089: 13, AR096: 9, AR052: 7, AR053: 5, AR060: 5, AR033: 5, AR039: 4, AR104: 4, AR055: 3, AR061: 2 S0028: 1 AR055: 12, AR096: 8, AR060: 5, AR089: 5,					119-38, 118-135,

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1045	HHEDW60	882799	1055	107 - 433	2460		H0052: 1, H0309: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, L0183: 1, H0687: 1, H0286: 1, H0328: 1, L0483: 1, L0053: 1, H0628: 1, H0169: 1, H0674: 1, S0366: 1, H0038: 1, H0634: 1, H0488: 1, H0268: 1, T0041: 1, T0042: 1, H0494: 1, S0014: 1, H0625: 1, H0509: 1, H0641: 1, S0002: 1, H0529: 1, L0637: 1, L0646: 1, L0773: 1, L0662: 1, L0768: 1, L0652: 1, L0776: 1, L0659: 1, L0783: 1, S0374: 1, H0593: 1, S0126: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S3012: 1, S3014: 1, S0028: 1, L0754: 1, L0750: 1, L0731: 1, S0260: 1, S0436: 1, L0596: 1, L0581: 1, S0242: 1, S0194: 1, H0543: 1, H0506: 1 and H0008: 1, AR039: 39, AR053: 30, AR052: 26, AR033: 23, AR096: 21, AR104: 21, AR089: 17, AR060: 15, AR055: 13, AR061: 10 L0777: 7, L0747: 5,			58-75
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1046	HNGNU93	882805	1056	221 - 811	2461	Leu-43 to Ser-52, Lys-84 to Lys-89, Lys-191 to Pro-197.	AR055: 8, AR060: 7, AR053: 6, AR089: 6, AR052: 5, AR096: 5, AR033: 5, AR061: 4, AR104: 4, AR039: 2 H0031: 5, H0581: 3, H0650: 2, H0486: 2, H0013: 2, S0152: 2, H0521: 2, L0748: 2, S0260: 2, H0265: 1, H0556: 1, S0114: 1, S0045: 1, H0437: 1, S0280: 1, H0050: 1, T0079: 1, H0510: 1, H0286: 1, H0169: 1, H0068: 1, H0598: 1.	H0556: 4, L0794: 4, L0592: 4, H0497: 3, H0052: 3, L0803: 3, H0087: 2, L0439: 2, L0749: 2, L0593: 2, H0459: 1, S0046: 1, L0717: 1, H0575: 1, S0010: 1, H0390: 1, H0194: 1, H0050: 1, H0375: 1, L0055: 1, S0036: 1, H0059: 1, S0038: 1, H0494: 1, S0002: 1, L0809: 1, L0789: 1, L0663: 1, L0665: 1, S0330: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, S0028: 1, L0731: 1, L0759: 1, L0581: 1, H0542: 1 and H0422: 1.					125-141
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1047	HARMS29	882813	1057	100 - 423	2462	Pro-29 to Pro-41.	H0038: 1, H0634: 1, H0551: 1, S0038: 1, H0633: 1, H0652: 1, S0428: 1, H0144: 1, H0666: 1, S0028: 1, L0749: 1, H0445: 1, L0596: 1, L0591: 1, L0608: 1 and H0667: 1.				53-74, 1-17
1048	HAMHH25	882839	1058	123 - 569	2463	Thr-12 to Ser-18, Gly-88 to Leu-93, Gly-131 to Gln-144.	AR096: 4, AR053: 3, AR039: 2, AR055: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 2, AR052: 1, AR104: 1, H0592: 1, T0048: 1, L0770: 1 and L0756: 1.				53-69
1049	HLCLA47	882849	1059	138 - 662	2464		AR039: 2, AR060: 1, AR096: 1, AR089: 1, AR053: 1, AR061: 1, AR104: 0, AR055: 0, AR039: 0 H0717: 3, H0624: 2, S0140: 2, H0050: 2, H0622: 2, H0551: 2, H0520: 2, S0001: 1, H0662: 1, S0418:				66-93, 40-59, 101-119

1050	HDFSO06	882888	1060	76 - 1269	2465	Met-1 to Glu-6, Leu-36 to Arg-41, Leu-62 to Gly-67, Lys-115 to Tyr-129, Asn-151 to Asp-156, Ala-178 to His-185, Pro-215 to Met-220, Lys-232 to Asn-238, Glu-261 to Pro-266, Asn-277 to Ser-284, Asn-314 to Lys-319, Asp-367 to Lys-377, Lys-391 to His-398.	AR053: 1, AR104: 1, AR033: 1, AR061: 0, AR089: 0, AR096: 0, AR039: 0, AR060: 0, AR052: 0 H0521: 6, H0553: 3, S0040: 1, H0661: 1, H0580: 1, S0222: 1, H0392: 1, H0586: 1, H0486: 1, H0184: 1, H0510: 1, H0428: 1, H0100: 1, H0130: 1, S0002: 1, S0426: 1, H0529: 1, H0520: 1, S0126: 1, L0748: 1, L0740: 1, L0754: 1, L0758: 1, H0667: 1 and H0542: 1.	1, H0580: 1, H0619: 1, L0467: 1, H0549: 1, T0039: 1, H0427: 1, H0575: 1, H0581: 1, H0597: 1, H0546: 1, T0010: 1, H0179: 1, H0286: 1, S0338: 1, H0615: 1, H0628: 1, H0063: 1, H0647: 1, H0649: 1, H0555: 1, S3012: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0759: 1, L0593: 1 and H0543: 1.					71-95, 95- 111
1051	HFXKG51	882935	1061	559 -	2466	His-10 to Asn-21,	AR096: 4, AR053: 3,						94-116,

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1052	HE9PQ22	882969	1062	138 - 476	2467		AR053: 24, AR033: 23, AR052: 22, AR055: 22, AR061: 18, AR089: 18, AR060: 12, AR039: 10, AR096: 10, AR104: 7 L0157: 7, L0750: 4, H0295: 2, H0341: 2, S0420: 2, T0109: 2, L0769: 2, L0774: 2, L0777: 2, S0046: 1, S0278: 1, H0549: 1, H0081: 1, H0124: 1, H0560: 1, L0772: 1, L0662: 1, L0768: 1, L0775: 1, L0655: 1, L0518: 1, L0791: 1, H0144: 1, H0651: 1, H0696: 1, H0187: 1, L0754: 1, L0755: 1 and H0422: 1.			94-113, 64-80, 10- 26
1053	HELEL31	882980	1063	115 - 495	2468	Met-1 to Leu-6, Leu-56 to Trp-67.	AR089: 15, AR052: 14, AR096: 13, AR060: 12, AR033: 12, AR039: 11, AR055: 10, AR104: 10, AR053: 9, AR061: 4 L0438: 3, L0751: 3, L0747: 3, L0757: 3, H0251:	1q24	107300, 131210, 136132, 145001, 173610, 601518, 601652	66-93, 29- 47

1054	HTLGQ83	882989	1064	814 - 2	2469	Pro-10 to Ser-16, Asp-31 to Met-43, Ala-113 to Arg-118.	2, L0771: 2, L0439: 2, L0754: 2, L0758: 2, H0381: 1, H0341: 1, S0360: 1, H0675: 1, S0045: 1, T0048: 1, H0545: 1, H0178: 1, H0562: 1, S0051: 1, H0428: 1, H0135: 1, H0087: 1, H0494: 1, L0764: 1, L0773: 1, L0768: 1, L0805: 1, L0776: 1, L0659: 1, S0380: 1, L0743: 1, L0744: 1, L0591: 1, L0592: 1, L0599: 1, L0595: 1 and L0600: 1. AR089: 15, AR033: 13, AR052: 11, AR053: 10, AR060: 9, AR096: 8, AR055: 8, AR061: 4, AR104: 3, AR039: 3 H0046: 22, L0748: 9, H0556: 7, L0766: 6, L0439: 6, H0619: 5, H0620: 5, L0777: 5, H0013: 4, H0135: 4, L0659: 4, H0672: 4, L0754: 4, L0595: 4, H0543: 4, H0550: 3, H0253: 3, H0052: 3, H0050: 3, H0024: 3, T0006: 3, H0617: 3, T0041: 3, H0130: 3, L0520: 3, L0769: 3, L0776: 3, L0665: 3, H0539: 3, L0758:					237-253, 66-82, 196-212, 119-135
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1055	HETJU23	883007	1065	518 - 1120	2470			1, L0608: 1, H0665: 1, H0423: 1, H0422: 1 and S0412: 1. AR055: 9, AR061: 8, AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR039: 2, AR096: 1, AR104: 1 L0749: 5, L0794: 3, H0658: 3, L0777: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0438: 2, H0556: 1, H0329: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L5566: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0650: 1, L0776: 1, L0367: 1, L0665: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1, L0747: 1 and L0759: 1. AR089: 4, AR055: 4, AR033: 4, AR052: 4, AR096: 3, AR060: 3, AR053: 3, AR061: 3, AR039: 0, AR104: 0 S0114: 1, H0376: 1,		159-175, 59-75, 31- 47, 80-96	
1056	HNGKB25	883012	1066	140 - 508	2471			AR089: 4, AR055: 4, AR033: 4, AR052: 4, AR096: 3, AR060: 3, AR053: 3, AR061: 3, AR039: 0, AR104: 0 S0114: 1, H0376: 1,		54-74, 10- 26, 33-49, 80-96	

1057	HADAM67	883039	1067	86 - 634	2472	Ser-50 to Ser-57, Thr-73 to Leu-91, Pro-101 to Ser-110, Glu-116 to Phe-126.	S0428: 1 and L0748: 1, AR055: 8, AR089: 7, AR096: 7, AR053: 7, AR060: 6, AR033: 6, AR039: 5, AR104: 4, AR052: 3, AR061: 2 L0731: 9, L0803: 8, L0749: 8, L0748: 5, L0439: 5, L0756: 4, L0759: 4, H0581: 3, L0766: 3, L0747: 3, H0013: 2, H0427: 2, H0052: 2, H0251: 2, H0050: 2, L0794: 2, L0789: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0134: 1, S0442: 1, S0358: 1, H0411: 1, H0261: 1, H0431: 1, H0455: 1, H0574: 1, H0486: 1, S0010: 1, H0439: 1, H0569: 1, H0014: 1, H0375: 1, H0124: 1, S0036: 1, H0038: 1, S0210: 1, L0371: 1, L0521: 1, L0774: 1, L0809: 1, S0374: 1, L0438: 1, H0696: 1, S0044: 1, H0436: 1, S0390: 1, L0750: 1, L0752: 1, S0276: 1, H0543: 1 and H0423: 1.				127-155
1058	HDQPJ82	883055	1068	103 -	2473	Ala-15 to Gln-20,	AR039: 4, AR096: 3,				26-45, 59-

1059	HHFFX31	883056	1069	125 - 583	2474	Ala-15 to Gln-20.	Tyr-89 to Glu-103.	AR089: 3, AR053: 3, AR104: 3, AR033: 2, AR055: 2, AR061: 1, AR052: 1, AR060: 1 S0354: 4, H0551: 3, H0556: 2, S0358: 2, H0587: 2, H0494: 2, H0522: 2, S0424: 2, S0134: 1, H0662: 1, S0418: 1, H0437: 1, S0222: 1, H0194: 1, H0564: 1, H0373: 1, H0031: 1, H0529: 1, H0691: 1, H0693: 1, S0126: 1, H0689: 1, H0521: 1, H0555: 1, H0436: 1, H0540: 1, L0741: 1, L0748: 1, L0439: 1, S0260: 1, H0445: 1, L0596: 1, H0653: 1 and H0422: 1.			AR089: 3, AR053: 3, AR104: 3, AR033: 2, AR055: 2, AR061: 1, AR052: 1, AR060: 1 S0354: 4, H0551: 3, H0556: 2, S0358: 2, H0587: 2, H0494: 2, H0522: 2, S0424: 2, S0134: 1, H0662: 1, S0418: 1, H0437: 1, S0222: 1, H0194: 1, H0564: 1, H0373: 1, H0031: 1, H0529: 1, H0691: 1, H0693: 1, S0126: 1, H0689: 1, H0521: 1, H0555: 1, H0436: 1, H0540: 1, L0741: 1, L0748: 1, L0439: 1, S0260: 1, H0445: 1, L0596: 1, H0653: 1 and H0422: 1.			77, 112- 129, 200- 216, 238- 254, 173- 189
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1060	HHESF39	883067	1070	13 - 681	2475	H0543: 1 and H0423: 1. AR033: 2, AR089: 2, AR096: 1, AR039: 1, AR060: 1, AR052: 1, AR061: 1, AR055: 0, AR053: 0, AR104: 0 H0457: 6, L0770: 4, L0775: 3, L0747: 3, L0662: 2, L0663: 2, H0521: 2, L0751: 2, L0731: 2, L0758: 2, H0445: 2, T0002: 1, H0657: 1, H0255: 1, H0402: 1, H0638: 1, S0408: 1, H0619: 1, S0222: 1, H0370: 1, H0333: 1, H0101: 1, H0575: 1, H0052: 1, H0546: 1, H0563: 1, H0050: 1, H0620: 1, S0051: 1, H0622: 1, H0644: 1, H0617: 1, H0606: 1, H0077: 1, S0002: 1, L0638: 1, L0796: 1, L0761: 1, L0646: 1, L0764: 1, L0794: 1, L0766: 1, L0806: 1, L0657: 1, L0665: 1, H0593: 1, H0670: 1, S0328: 1, H0539: 1, H0522: 1, H0696: 1, H0555: 1, S3012: 1, L0741: 1, L0439: 1, L0779: 1, L0780: 1, L0603: 1 and H0543: 1	69-93, 174-198, 45-67, 1- 17, 144- 160
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1061	HTLHB93	883085	1071	8 - 343	2476	Ser-10 to Leu-18.	AR096: 2, AR055: 1, AR061: 1, AR060: 1, AR033: 1, AR089: 1, AR039: 0, AR052: 0, AR053: 0, AR104: 0 H0618: 1 and L0758: 1.			60-101, 19-44, 79- 101
1062	HDTJA78	883094	1072	26 - 553	2477	Pro-3 to Ser-9, Thr-71 to Lys-79, Ala-132 to Gly-139, Asn-144 to Leu-152.	AR096: 1, AR089: 1, AR055: 1, AR033: 1, AR061: 1, AR053: 0, AR039: 0, AR052: 0, AR060: 0, AR104: 0 L0764: 5, L0742: 4, L0439: 3, L0740: 3, L0747: 3, L0755: 3, S0408: 2, H0486: 2, H0581: 2, L0794: 2, L0809: 2, H0672: 2, L0748: 2, L0750: 2, H0686: 1, H0393: 1, H0178: 1, H0620: 1, H0212: 1, T0067: 1, L0769: 1, L0637: 1, L0644: 1, L0766: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0655: 1, L0783: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, L0749: 1, L0752: 1, L0758: 1, L0759: 1 and H0343: 1.			43-70, 25- 43, 104- 121, 85- 101
1063	HNGPL75	883101	1073	197 -	2478	Met-1 to Pro-7.	AR055: 8, AR060: 6,			46-65, 76-

1064	HNTDV93	883131	1074	37 - 978	2479	Cys-9 to Asp-15.	AR033: 5, AR061: 4, AR052: 4, AR096: 4, AR053: 4, AR089: 3, AR104: 2, AR039: 2 L0766: 1, S0428: 1 and L0592: 1.				92
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1065	HNSMB73	883132	1075	73 - 444	2480		AR039: 39, AR033: 17, AR104: 15, AR053: 15, AR052: 15, AR089: 13, AR096: 12, AR055: 11, AR060: 10, AR061: 6 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.			94-112, 64-82, 7- 25, 31-47
1066	HTLGL03	883142	1076	301 - 951	2481	Ser-117 to Ser-123, Gly-141 to Tyr-150.	AR055: 8, AR089: 4, AR033: 4, AR060: 4, AR061: 4, AR053: 4, AR052: 4, AR039: 4, AR096: 3, AR104: 2 L0439: 10, L0747: 10, L0794: 8, L0754: 8, L0731: 7, H0046: 6, L0759: 6, L0771: 5, L0773: 5, L0809:			188-213, 62-78

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1067	HGBCN41	883149	1077	436 - 876	2482	Glu-2 to Phe-18, Pro-20 to Leu-27.	1, L0804: 1, L0775: 1, L0806: 1, L0659: 1, L0529: 1, L0663: 1, S0428: 1, H0689: 1, H0670: 1, H0648: 1, S0380: 1, L0749: 1, L0750: 1, L0756: 1, L0755: 1, L0758: 1, S0434: 1, S0194: 1 and H0423: 1. AR060: 437, AR055: 303, AR061: 241, AR033: 235, AR104: 229, AR089: 173, AR039: 161, AR053: 108, AR052: 105, AR096: 64 L0659: 8, H0046: 7, L0752: 5, L0666: 4, H0549: 3, L0794: 3, L0758: 3, H0012: 2, L0763: 2, L0766: 2, L0647: 2, L0788: 2, S0192: 2, H0369: 1, H0618: 1, H0318: 1, H0596: 1, H0105: 1, H0015: 1, H0073: 1, H0510: 1, H0615: 1, H0622: 1, T0023: 1, H0598: 1, H0063: 1, H0494: 1, L0640: 1, L0631: 1, L0662: 1, L0805: 1, L0809: 1, L0787: 1, L0789: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0689: 1, S0146: 1, H0478: 1, S3012: 1,					36-55, 59- 75
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1068	HWMBU8 9	883172	1078	149 - 652	2483				AR052: 10, AR053: 8, AR033: 7, AR055: 7, AR089: 7, AR039: 7, AR060: 6, AR096: 5, AR104: 4, AR061: 4 L0771: 3, L0803: 3, L0748: 3, L0754: 3, S0376: 2, H0658: 2, L0743: 2, L0747: 2, L0777: 2, L0755: 2, H0707: 2, L0591: 2, H0686: 1, H0685: 1, S0358: 1, H0356: 1, H0494: 1, S0440: 1, H0641: 1, L0800: 1, L0774: 1, L0789: 1, H0684: 1, L0749: 1, L0601: 1 and L0603: 1.				
1069	HSEBA38	883175	1079	41 - 991	2484	Met-1 to Phe-10, Ala-76 to Asn-82, Gln-274 to Glu-280, Gln-288 to Arg-296.			AR053: 15, AR033: 12, AR052: 10, AR096: 10, AR060: 9, AR089: 8, AR104: 5, AR061: 5, AR039: 4, AR055: 3 L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634:	22q11.2-qter			82-99, 208-224, 134-150, 228-244

				3, H0623: 3, H0641: 3, H0521: 3, L0747: 3, H0543: 3, S0040: 2, H0580: 2, H0592: 2, H0618: 2, S0474: 2, H0421: 2, H0510: 2, H0644: 2, T0041: 2, L0439: 2, L0754: 2, L0759: 2, S0031: 2, H0136: 2, H0583: 1, H0656: 1, H0255: 1, S0356: 1, S0376: 1, H0393: 1, H0351: 1, H0549: 1, H0431: 1, H0392: 1, H0409: 1, H0642: 1, H0559: 1, T0109: 1, H0013: 1, H0069: 1, H0635: 1, H0253: 1, H0318: 1, H0123: 1, H0047: 1, H0197: 1, H0024: 1, S0051: 1, H0687: 1, H0290: 1, S0250: 1, H0328: 1, H0031: 1, H0068: 1, H0376: 1, S0036: 1, H0163: 1, H0591: 1, H0040: 1, H0616: 1, H0551: 1, H0413: 1, H0560: 1, S0144: 1, H0529: 1, L0638: 1, H0144: 1, H0703: 1, H0547: 1, S0126: 1, S0328: 1, H0539: 1, H0522: 1, S3014: 1, L0745: 1, L0750: 1, L0756: 1, L0752: 1, L0731: 1, L0591:						
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1070	HEEAX26	883176	1080	281 - 1666	2485	Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Ser-114.	1, L0362: 1, S0011: 1, S0026: 1 and H0506: 1. AR096: 148, AR052: 102, AR089: 99, AR060: 78, AR053: 69, AR104: 35, AR039: 34, AR033: 33, AR061: 29, AR055: 11 L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634: 3, H0623: 3, H0641: 3, H0521: 3, L0747: 3, H0543: 3, S0040: 2, H0580: 2, H0592: 2, H0618: 2, S0474: 2, H0421: 2, H0510: 2, H0644: 2, T0041: 2, L0439: 2, L0754: 2, L0759: 2, S0031: 2, H0136: 2, H0583: 1, H0656: 1, H0255: 1, S0356: 1, S0376: 1, H0393: 1, H0351: 1, H0549: 1, H0431: 1, H0392: 1, H0409: 1, H0642: 1, H0559: 1, T0109: 1, H0013: 1, H0069: 1, H0635: 1, H0253: 1, H0318: 1, H0123: 1, H0047: 1, H0197: 1, H0024: 1, S0051: 1, H0687: 1, H0290: 1, S0250: 1, H0328: 1,				257-274, 196-213, 61-77, 282-298
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1071	HSXCV48	883211	1081	352 - 690	2486	Arg-63 to Arg-71.	H0031: 1, H0068: 1, H0376: 1, S0036: 1, H0163: 1, H0591: 1, H0040: 1, H0616: 1, H0551: 1, H0413: 1, H0560: 1, S0144: 1, H0529: 1, L0638: 1, H0144: 1, H0703: 1, H0547: 1, S0126: 1, S0328: 1, H0539: 1, H0522: 1, S014: 1, L0745: 1, L0750: 1, L0756: 1, L0752: 1, L0731: 1, L0591: 1, L0362: 1, S0011: 1, S0026: 1 and H0506: 1. AR052: 2, AR089: 2, AR033: 1, AR096: 1, AR055: 1, AR104: 1, AR060: 1, AR061: 0, AR053: 0, AR039: 0 S0051: 5, L0666: 4, S0388: 3, L0438: 3, S0036: 2, L0774: 2, L0805: 2, H0593: 2, H0670: 2, L0748: 2, L0752: 2, S0434: 2, S6024: 1, H0294: 1, S0030: 1, S0442: 1, S0360: 1, H0406: 1, S0010: 1, L0040: 1, H0012: 1, H0620: 1, H0014: 1, S0048: 1, T0010: 1, H0673: 1, H0038: 1, H0494: 1, L0770: 1, L0769: 1,						1-22, 30- 53, 70-92
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1072	HTLAG19	883219	1082	107 - 1120	2487	Met-1 to Leu-6, Phe-48 to Gly-54, Cys-99 to Arg-104, Pro-258 to Ser-263, Arg-303 to Thr-309.	L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1. AR033: 7, AR055: 5, AR061: 4, AR060: 3, AR089: 3, AR053: 3, AR052: 3, AR096: 3, AR039: 2, AR104: 2 H0253: 11, L0439: 6, L0794: 5, L0809: 5, L0758: 4, H0618: 3, L0766: 3, L0803: 3, H0393: 2, L0783: 2, L0438: 2, H0341: 1, S0420: 1, S0358: 1, H0730: 1, S0474: 1, S0362: 1, H0510: 1, H0181: 1, L0769: 1, L0542: 1, L0789: 1, H0187: 1, L0743: 1, L0779: 1 and L0777: 1.				189-212, 5-21
1073	HISBV17	883238	1083	10 - 594	2488		AR052: 4, AR053: 4, AR033: 3, AR039: 2, AR104: 2, AR089: 1, AR055: 1, AR061: 1, AR060: 1, AR096: 1				126-154, 169-190, 57-73, 87- 103, 2-18
1074	HFKLN07	883248	1084	700 - 1323	2489	Arg-22 to Asn-32, Arg-59 to Phe-83, Glu-197 to Asp-203.	AR039: 26, AR104: 13, AR096: 12, AR033: 12, AR055: 12, AR053: 12,				120-138, 160-177

1075	HTLID36	883250	1085	22 - 420	2490	Thr-3 to Thr-11,	AR089: 11, AR052: 11, AR060: 9, AR061: 8 L0439: 7, H0620: 5, L0764: 4, H0424: 3, H0617: 3, L0659: 3, H0543: 3, H0333: 2, H0069: 2, H0618: 2, L0666: 2, L0438: 2, L0747: 2, L0756: 2, L0777: 2, L0757: 2, H0341: 1, H0661: 1, H0638: 1, S0222: 1, H0492: 1, H0270: 1, H0599: 1, H0036: 1, H0253: 1, H0318: 1, S0049: 1, H0052: 1, H0545: 1, H0023: 1, H0266: 1, S0250: 1, H0040: 1, H0623: 1, H0100: 1, T0042: 1, H0641: 1, S0002: 1, H0695: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, H0519: 1, H0682: 1, H0435: 1, H0658: 1, H0521: 1, H0436: 1, H0631: 1, L0779: 1, L0758: 1, L0593: 1, L0595: 1, L0601: 1, H0665: 1, H0667: 1, H0542: 1, H0423: 1, H0677: 1 and S0446: 1.				97-117
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1076	HSLHV27	883287	1086	127 - 960	2491	Pro-51 to Gly-58.	AR053: 9, AR033: 8, AR089: 7, AR052: 7, AR060: 7, AR061: 5, AR096: 5, AR104: 4 H0618: 1 and H0038: 1.				114-143, 255-278, 154-179, 34-61, 2- 21, 85- 101, 66- 82, 233- 249, 208- 224
1077	HSLJG70	883295	1087	193 - 819	2492		AR060: 3, AR061: 1, AR033: 1, AR039: 1, AR104: 1, AR055: 1, AR096: 1, AR089: 1, AR053: 0, AR052: 0 S0028: 1				121-145, 143-166, 53-75, 2- 28, 26-46, 94-110, 171-187
1078	HSEAK30	883301	1088	300 - 1052	2493	Thr-97 to Ile-105, Phe-111 to Tyr-116, Gly-139 to Thr-147, Leu-155 to Tyr-161, Thr-177 to Gln-189.	AR089: 14, AR053: 10, AR055: 9, AR033: 9, AR060: 9, AR052: 8, AR096: 7, AR061: 6, AR039: 4, AR104: 3 L0749: 4, L0770: 2, H0254: 1, H0662: 1, L0534: 1, L0562: 1, S0442: 1, H0154: 1, S0002: 1, L0385:				197-226, 10-26

1079	HTTBM62	883307	1089	15 - 1493	2494		1, H0134: 1 and L0748: 1. AR061: 9, AR055: 8, AR033: 4, AR052: 4, AR060: 4, AR089: 3, AR053: 3, AR104: 2, AR096: 2, AR039: 1 H0046: 6, L0717: 2, L0770: 2, L0769: 2, L0666: 2, H0265: 1, H0556: 1, S0342: 1, H0346: 1, H0459: 1, S0418: 1, L0103: 1, S0300: 1, H0600: 1, H0587: 1, H0642: 1, H0331: 1, H0486: 1, H0069: 1, H0421: 1, H0597: 1, H0083: 1, L0052: 1, H0673: 1, H0040: 1, H0272: 1, H0529: 1, L0637: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, H0547: 1, H0519: 1, H0593: 1, H0683: 1, S0378: 1, S0406: 1, H0555: 1, L0741: 1, L0747: 1, L0753: 1, S0031: 1, L0604: 1, S0011: 1 and S0424: 1.		262-282, 100-116, 75-91
1080	HFCDT23	883327	1090	74 - 394	2495		AR053: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 3, AR055: 3, AR033: 3, AR104: 3,		75-107, 42-62, 1- 18, 21-37, 66-82

1081	HDPGU86	883328	1091	400 - 789	2496		AR061: 2, AR039: 0 S0152: 3, H0009: 2, H0135: 2, H0547: 2, L0439: 2, S0418: 1, S0354: 1, H0620: 1, H0264: 1, L0558: 1, H0519: 1, H0435: 1, H0539: 1, H0521: 1, L0751: 1, S0436: 1, S0192: 1 and H0506: 1.				32-65, 1- 19, 23-39
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1082	H2CBE07	883335	1092	598 - 1317	2497	Lys-219 to Asn-232, Pro-235 to Ala-240.	1, H0560: 1, H0561: 1, L0796: 1, L0639: 1, L0646: 1, L0764: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0558: 1, L0783: 1, L0383: 1, L0519: 1, L0789: 1, L0793: 1, L0666: 1, L0438: 1, H0519: 1, H0435: 1, S0328: 1, H0539: 1, H0521: 1, H0696: 1, H0134: 1, L0747: 1, L0779: 1, L0752: 1, L0731: 1, L0593: 1, H0665: 1, S0192: 1 and H0506: 1.				196-219, 66-85, 25- 47, 148- 166, 121- 138, 166- 182
							AR104: 1, AR053: 1, AR089: 1, AR061: 1, AR060: 0, AR055: 0, AR052: 0, AR033: 0, AR096: 0, AR039: 0 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2,				

1083	HFIHS04	883358	1093	42 - 755	2498	Pro-30 to Ser-38, Gly-69 to Leu-79, Thr-147 to Gly-158, Tyr-220 to Glu-238.	L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.				84-112, 39-66, 196-212, 157-175, 5-21
							AR096: 7, AR089: 4, AR061: 4, AR060: 3, AR033: 3, AR052: 3, AR104: 3, AR039: 2, AR055: 1, AR053: 1 L0748: 5, S0276: 3, S0410: 2, H0012: 2, H0024: 2,				

1084	HTXLP33	883359	1094	67 - 486	2499	Gln-55 to Asn-65.	<p>H0521: 2, L0439: 2, H0662: 1, S0420: 1, S0358: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, H0090: 1, S0438: 1, H0509: 1, L0518: 1, H0539: 1, S0434: 1, S0242: 1 and S0194: 1.</p> <p>AR055: 7, AR053: 7, AR052: 6, AR033: 5, AR096: 4, AR039: 4, AR089: 4, AR061: 4, AR060: 3, AR104: 2, S0328: 4, H0556: 3, L0438: 2, L0742: 2, L0777: 2, H0170: 1, H0083: 1, H0598: 1, H0616: 1, L0770: 1, L0766: 1, L0655: 1, L0779: 1, H0445: 1 and L0608: 1.</p>					110-129	
1085	HMEKKG76	883364	1095	265 - 1125	2500	<p>Glu-2 to Arg-10, Lys-18 to Lys-28, His-76 to Gly-84, Ser-101 to Gln-116, Asp-194 to Glu-199, Pro-239 to Ala-245, Asp-257 to Ser-272.</p>	<p>AR033: 7, AR055: 5, AR052: 5, AR053: 5, AR089: 4, AR060: 4, AR061: 3, AR096: 3, AR104: 3, AR039: 0, H0618: 6, L0769: 5, L0794: 5, L0439: 5, L0747: 5, L0766: 4, L0803: 4, S3014: 4, L0748: 4, L0758:</p>					123-139, 152-168	

1086	HTENG02	883375	1096	110 - 607	2501	Tyr-92 to Glu-97.	AR055: 7, AR061: 5, AR033: 4, AR060: 4, AR052: 3, AR089: 3, AR053: 3, AR096: 3, AR104: 1, AR039: 1 H0009: 2, H0031: 2, L0596: 2, H0295: 1, H0341: 1, H0483: 1, S0358: 1, S0410: 1, H0497: 1, H0616: 1, S0440: 1, L0800: 1, L0794: 1, L0649: 1, L0803: 1, L0657: 1, L0791: 1, S0152: 1, L0779: 1, S0436: 1 and H0542: 1.				32-64, 71- 89, 98-115
1087	HTOA W80	883376	1097	285 - 1244	2502	Asn-82 to Tyr-87.	AR053: 9, AR096: 7, AR052: 7, AR089: 5, AR055: 4, AR039: 3, AR060: 3, AR104: 3, AR033: 2, AR061: 2 H0506: 4, S0434: 2 and H0264: 1.				13-46, 245-273, 50-73, 205-234, 180-199, 98-114
1088	HAJAW57	883401	1098	47 - 1036	2503	Arg-6 to Gly-28, Lys-35 to His-47, Glu-50 to Lys-63, Leu-65 to Asn-86, Arg-93 to Asn-109, Ser-116 to Asp-136.	AR096: 13, AR033: 12, AR052: 11, AR053: 11, AR089: 10, AR104: 10, AR060: 7, AR039: 4, AR055: 2, AR061: 2 L0754: 15, L0748: 14, L0439: 9, H0543: 9, L0766: 7, L0747: 7, L0779: 7,				238-258, 262-280

L0770: 6, L0771: 6, L0745: 6, L0758: 6, S0408: 5, L0665: 5, L0438: 5, L0749: 5, H0423: 5, S0474: 4, H0014: 4, H0038: 4, L0659: 4, H0436: 4, L0777: 4, L0731: 4, H0445: 4, L0362: 4, H0657: 3, S0116: 3, S0360: 3, S0222: 3, H0486: 3, H0052: 3, H0046: 3, L0483: 3, L0142: 3, H0551: 3, S0440: 3, S0002: 3, L0369: 3, L0803: 3, L0805: 3, L0776: 3, L0655: 3, L0527: 3, L0666: 3, S0374: 3, S0126: 3, H0710: 3, S0028: 3, L0740: 3, L0750: 3, L0589: 3, L0599: 3, L0415: 2, H0661: 2, H0306: 2, S0354: 2, S0358: 2, S0476: 2, H0619: 2, H0574: 2, H0013: 2, S0346: 2, S0003: 2, H0039: 2, H0674: 2, H0090: 2, L0564: 2, S0422: 2, L0769: 2, L0662: 2, L0775: 2, L0653: 2, H0144: 2, H0547: 2, S0328: 2, L0602: 2, H0521: 2, H0696: 2, S0406: 2, S014: 2, L0759: 2, H0595: 2,
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[illegible]

1089	HTEHF89	883419	1099	698 - 3	2504	Pro-35 to Cys-46, Pro-48 to Glu-54, Tyr-79 to Ser-85.	S0306: 1, S0438: 1, H0509: 1, S0344: 1, H0538: 1, H0529: 1, L0506: 1, L0371: 1, L0637: 1, L0667: 1, L0630: 1, L0764: 1, L0773: 1, L0768: 1, L0364: 1, L5574: 1, L0804: 1, L0774: 1, L0784: 1, L0378: 1, L0806: 1, L0606: 1, L0809: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, S0216: 1, H0435: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0522: 1, S0146: 1, S0027: 1, S0032: 1, L0741: 1, L0744: 1, L0751: 1, L0752: 1, L0753: 1, L0755: 1, L0757: 1, S0031: 1, L0608: 1, L0361: 1, S0026: 1, H0665: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1, L0462: 1 and H0352: 1. AR096: 1, AR104: 1, AR060: 1, AR033: 1, AR055: 1, AR089: 1, AR039: 0, AR053: 0, AR061: 0, AR052: 0 H0046: 9, H0038: 2, H0170: 1, H0455: 1, H0486: 1, H0013: 1, S0010: 1,					148-180, 90-109, 191-207, 58-76
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1090	HSYBB84	883420	1100	88 - 567	2505	Pro-29 to Cys-40, Pro-42 to Glu-48, Tyr-73 to Ser-79.	H0052: 1, H0327: 1, S6028: 1, S0214: 1, H0328: 1, H0040: 1, H0551: 1, H0268: 1, H0560: 1, H0520: 1 and H0519: 1. AR096: 7, AR033: 5, AR052: 5, AR089: 5, AR060: 4, AR104: 4, AR039: 4, AR053: 4, AR061: 1, AR055: 1 L0439: 11, H0046: 9, L0766: 6, L0777: 5, L0759: 5, L0438: 4, L0740: 4, H0486: 3, L0659: 3, H0539: 3, L0750: 3, S0358: 2, S6028: 2, H0688: 2, H0553: 2, H0038: 2, H0551: 2, L0666: 2, H0547: 2, L0752: 2, L0758: 2, S0434: 2, H0170: 1, H0740: 1, H0638: 1, S0444: 1, S0360: 1, H0455: 1, H0013: 1, H0156: 1, H0575: 1, S0010: 1, H0052: 1, H0327: 1, S0250: 1, S0214: 1, H0328: 1, H0428: 1, H0040: 1, H0268: 1, L0435: 1, H0560: 1, S0352: 1, L0769: 1, L0646: 1, L0662: 1, L0774: 1, L0775: 1, L0776: 1, L0655:						84-103, 52-70
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1091	HTJMD30	883430	1101	135 - 632	2506	Asn-6 to Gln-38, Gly-41 to Arg-49, Gln-57 to Gln-65, Gln-68 to Thr-74, Ala-76 to Leu-92.	1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, H0659: 1, S0330: 1, S0406: 1, S0028: 1, L0749: 1, L0753: 1, H0668: 1, S0026: 1 and H0667: 1. AR052: 2, AR061: 1, AR089: 1, AR104: 1, AR053: 1, AR033: 1, AR060: 1, AR096: 0, AR055: 0, AR039: 0 H0494: 4, H0521: 3, S3014: 3, S0354: 2, S0476: 2, H0083: 2, H0252: 2, H0644: 2, S0126: 2, S0152: 2, S0027: 2, S0028: 2, S0011: 2, H0543: 2, H0556: 1, S0040: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, H0580: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, H0497: 1, T0040: 1, T0114: 1, H0156: 1, H0097: 1, H0599: 1, H0024: 1, H0051: 1, H0355: 1, H0266: 1, H0031: 1, H0163: 1, H0634: 1, H0551: 1, H0264: 1, H0488: 1, H0268: 1, H0412: 1, H0056: 1, H0623:					126-143, 148-164
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1092	HELFG05	883434	1102	1721 - 1296	2507	Pro-2 to Glu-8, Thr-26 to Asp-32, Pro-70 to Arg-77, Ser-89 to Thr-95.	1, H0561: 1, H0547: 1, H0519: 1, H0593: 1, H0539: 1, H0134: 1, H0436: 1, S3012: 1, H0445: 1, L0593: 1 and H0422: 1.					126-142
							ARI04: 1, AR052: 1, AR055: 1, AR033: 1, AR061: 1, AR039: 0, AR089: 0, AR053: 0, AR060: 0, AR096: 0 L0794: 10, L0809: 9, L0750: 9, L0791: 7, L0747: 7, L0758: 6, L0759: 6, H0620: 5, L0749: 5, S0358: 4, H0135: 4, L0769: 4, L0800: 4, L0805: 4, L0659: 4, H0556: 3, L0471: 3, H0040: 3, L0804: 3, S0360: 2, H0393: 2, H0550: 2, H0592: 2, H0333: 2, S0049: 2, H0124: 2, S0438: 2, L0771: 2, L0662: 2, L0803: 2, L4501: 2, H0547: 2, L0779: 2, L0755: 2, L0731: 2, S0434: 2, L0603: 2, H0506: 2, H0713: 1, H0717: 1, H0294: 1, H0662: 1, H0729: 1, S0045: 1, H0607: 1, H0586: 1, H0587: 1, T0040: 1, S0280: 1, H0590:					

1093	HHEHG38	883493	1103	88 - 1722	2508	Gly-6 to Leu-13, Lys-15 to His-20, Ile-70 to Lys-76, Tyr-145 to Thr-150, Ser-223 to Met-228, Gly-252 to Gly-258, Glu-339 to Tyr-351, Leu-379 to Ile-387, Lys-394 to Thr-404.	AR039: 7, AR061: 6, AR104: 5, AR053: 5, AR096: 5, AR033: 5, AR052: 5, AR055: 4, AR089: 4, AR060: 4 L0779: 1, L0777: 1 and H0542: 1.	1, S0010: 1, H0581: 1, H0251: 1, H0041: 1, H0565: 1, H0570: 1, H0123: 1, H0081: 1, H0050: 1, H0188: 1, H0039: 1, H0622: 1, H0038: 1, H0063: 1, H0412: 1, H0413: 1, S0440: 1, S0210: 1, S0002: 1, L0763: 1, L0770: 1, L0761: 1, L0641: 1, L0768: 1, L0766: 1, L0375: 1, L0806: 1, L0776: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0660: 1, H0672: 1, H0539: 1, S0380: 1, H0521: 1, H0696: 1, H0555: 1, L0744: 1, L0748: 1, L0780: 1, L0757: 1, H0445: 1, L0584: 1, L0589: 1, S0242: 1, S0194: 1, H0008: 1 and H0352: 1.				93-110, 405-421, 189-205, 444-460, 22-38, 231-247
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1094	HSLDT25	883540	1104	50 - 679	2509		AR052: 18, AR033: 13, AR096: 12, AR089: 12, AR053: 10, AR060: 7, AR061: 6, AR104: 6, AR055: 6, AR039: 5 S0028: 1			11-38, 59- 82, 89- 118, 115- 138, 145- 163
1095	HSDGH19	883575	1105	374 - 697	2510	Pro-5 to Lys-11, Ala-21 to Ser-26, Asp-50 to Thr-56, Cys-90 to Ile-96, Val-103 to Gln-108.	AR096: 25, AR039: 22, AR104: 19, AR089: 18, AR053: 17, AR033: 16, AR052: 14, AR060: 14, AR055: 12, AR061: 7 H0521: 2, S0031: 2, H0305: 1, H0619: 1, H0635: 1, H0318: 1, H0309: 1, H0090: 1, H0059: 1, S0002: 1, H0435: 1 and L0740: 1.			67-90, 31- 47
1096	HCEOU19	883591	1106	2 - 373	2511	Asp-21 to Cys-41, Pro-43 to Leu-51, Ala-111 to Trp-118.	AR089: 5, AR053: 5, AR060: 4, AR096: 4, AR033: 3, AR039: 2, AR055: 2, AR061: 2, AR104: 2, AR052: 1 L0751: 4, L0803: 3, H0052: 2, H0125: 1, S0442: 1, H0009: 1, S0003: 1, L0055: 1, L0662: 1, L0774: 1, L0659: 1, L0789: 1, H0214: 1, L0749: 1 and L0605: 1.			72-106, 1- 20
1097	HBIMF04	883607	1107	126 -	2512	Met-1 to His-10,	AR053: 4, AR052: 3,			287-303,

1253	Leu-51 to Leu-60, Ser-84 to Val-91, Pro-222 to Asp-227, Glu-229 to Leu-236.	AR055: 3, AR033: 3, AR096: 3, AR089: 3, AR104: 3, AR060: 2, AR039: 2, AR061: 2 H0457: 11, L0766: 8, H0436: 5, L0747: 4, H0486: 3, H0620: 3, H0520: 3, H0341: 2, H0255: 2, H0402: 2, S0358: 2, H0581: 2, H0024: 2, H0405: 2, H0617: 2, L0761: 2, L0662: 2, L0768: 2, L0803: 2, L0776: 2, L0663: 2, H0691: 2, H0547: 2, H0555: 2, L0742: 2, L0779: 2, L0731: 2, H0543: 2, H0265: 1, H0584: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0125: 1, S0360: 1, H0549: 1, H0550: 1, H0613: 1, H0600: 1, H0592: 1, H0069: 1, H0618: 1, H0253: 1, H0318: 1, L0738: 1, H0544: 1, H0546: 1, H0009: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0622: 1, H0606: 1, H0135: 1, H0040: 1, H0488: 1, H0494: 1, H0560: 1, S0372: 1, S0002: 1, H0695: 1, L0769:	142-158, 331-347
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1098	HSKZE56	883619	1108	30 - 1079	2513	1, L0639: 1, L0772: 1, L0643: 1, L0645: 1, L0773: 1, L0775: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0790: 1, L0665: 1, H0593: 1, H0435: 1, S0328: 1, H0694: 1, H0134: 1, S0406: 1, L0741: 1, L0744: 1, L0748: 1, L0758: 1, H0667: 1 and H0506: 1. AR055: 17, AR033: 9, AR052: 8, AR061: 8, AR060: 7, AR089: 6, AR096: 6, AR104: 6, AR053: 5, AR039: 4 L0749: 6, S0356: 4, S0474: 4, L0748: 4, L0617: 3, S0126: 3, L0754: 3, L0588: 3, S0212: 2, S0045: 2, H0266: 2, H0170: 1, H0265: 1, H0419: 1, H0580: 1, S0046: 1, S0278: 1, S0280: 1, H0156: 1, H0575: 1, H0581: 1, H0123: 1, H0553: 1, L0142: 1, H0090: 1, H0063: 1, H0433: 1, H0641: 1, S0142: 1, L0644: 1, L0764: 1, L0650: 1, L0632: 1, L0787: 1, L0666: 1, H0725: 1, H0539: 1, H0521:					164-180, 271-287, 77-93
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1099	HLJBD90	883638	1109	731 - 1324	2514	Ala-2 to Tyr-20.	1, S3014: 1, S0027: 1, L0740: 1, L0756: 1, L0731: 1, L0759: 1, L0605: 1, H0665: 1, H0667: 1 and H0543: 1. AR055: 2, AR052: 2, AR053: 2, AR033: 2, AR096: 2, AR039: 2, AR060: 1, AR061: 1, AR089: 1, AR104: 0				130-161
1100	HAUAX28	883675	1110	515 - 967	2515	Phe-85 to Gly-96, Glu-133 to Thr-143.	AR055: 16, AR039: 14, AR053: 11, AR033: 10, AR052: 10, AR060: 10, AR089: 9, AR104: 9, AR096: 8, AR061: 8 L0509: 10, L0766: 6, L0504: 5, L0775: 4, L0499: 3, L0493: 3, L0515: 3, L0511: 3, L0809: 3, L0747: 3, L0502: 2, L0500: 2, L0771: 2, L0510: 2, L0512: 2, L0748: 2, L0439: 2, L0751: 2, L0779: 2, L0752: 2, L0731: 2, L0759: 2, L0593: 2, H0294: 1, H0125: 1, S0418: 1, S0420: 1, L0005: 1, S0358: 1, S0444: 1, S0045: 1, H0549: 1,				96-115, 67-83, 12- 28

1101	HUCPU88	883702	1111	923 - 3	2516	Lys-8 to Arg-18.	H0438: 1, H0559: 1, H0486: 1, H0318: 1, S0049: 1, L0471: 1, H0083: 1, S6028: 1, H0376: 1, H0090: 1, H0509: 1, H0529: 1, L0506: 1, L0763: 1, L0772: 1, L0764: 1, L0662: 1, L0774: 1, L0438: 1, H0689: 1, H0684: 1, H0658: 1, H0670: 1, H0660: 1, H0696: 1, S0044: 1, H0134: 1, L0740: 1, L0749: 1, L0755: 1, H0543: 1 and H0422: 1. AR039: 53, AR053: 31, AR033: 23, AR052: 22, AR089: 20, AR055: 16, AR104: 15, AR096: 14, AR060: 13, AR061: 10 S0420: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	279-301	
1102	HFXKJ22	883713	1112	22 - 438	2517		AR096: 5, AR053: 5, AR089: 4, AR052: 4, AR060: 3, AR033: 2,			20-42, 108-127, 1-18, 58-	

							AR055: 2, AR039: 1, AR104: 1, AR061: 1 S0282: 2 and H0352: 1.			74
1103	HWHPD05	883740	1113	133 - 1566	2518	Pro-44 to Lys-55, Pro-72 to Ser-79, His-138 to Lys-145, Leu-150 to Asp-155, Leu-164 to Val-170, Thr-173 to Gly-182, Gly-194 to Lys-204, Pro-233 to Gln-241, Pro-243 to Ala-255, Ser-469 to Asp-478.	AR096: 1, AR033: 1, AR104: 1, AR089: 1, AR060: 1, AR061: 0, AR052: 0, AR053: 0, AR039: 0 L0439: 3, H0587: 1 and H0560: 1.			360-382, 215-231, 341-357
1104	HFRAN15	883797	1114	703 - 1347	2519	Tyr-86 to Pro-93, Pro-143 to Ala-151, Leu-178 to Arg-189.	AR096: 4, AR060: 3, AR089: 3, AR053: 2, AR055: 2, AR061: 2, AR033: 2, AR104: 1, AR052: 1, AR039: 0 H0617: 2 and S0050: 1.			16-39, 64- 85, 41-60, 99-115, 150-166
1105	HHGCV39	883848	1115	40 - 390	2520		AR052: 24, AR055: 19, AR053: 17, AR096: 17, AR060: 16, AR033: 15, AR104: 15, AR089: 13, AR061: 11, AR039: 8 L0759: 6, L0769: 5, H0052: 4, L0770: 4, L0809: 4, L0439: 4, L0752: 4, S0408: 3, L0751: 3, L0747: 3, L0779: 3, S0007: 2,	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400,	71-93, 15- 31

1106	HMAFM80	883887	1116	279 - 758	2521	Met-40 to Thr-47.	H0351: 2, H0333: 2, H0427: 2, H0581: 2, L0662: 2, L0649: 2, L0774: 2, L0806: 2, L0666: 2, L0741: 2, L0777: 2, H0543: 2, H0739: 1, H0171: 1, H0254: 1, H0125: 1, H0675: 1, H0722: 1, H0733: 1, S0140: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0257: 1, H0486: 1, L0022: 1, H0042: 1, H0150: 1, H0086: 1, H0123: 1, T0010: 1, H0266: 1, H0673: 1, S0364: 1, H0063: 1, H0087: 1, H0494: 1, H0560: 1, H0538: 1, L0761: 1, L0772: 1, L0646: 1, L0765: 1, L0766: 1, L0805: 1, L0776: 1, L0807: 1, L0657: 1, L0783: 1, H0547: 1, S0126: 1, H0435: 1, S0330: 1, H0521: 1, H0522: 1, L0743: 1, L0749: 1, L0750: 1, L0786: 1, L0753: 1, L0755: 1, L0731: 1, L0758: 1, S0436: 1, S0011: 1 and S0192: 1. AR033: 2, AR089: 2, AR052: 2, AR060: 2, AR061: 2, AR055: 1,		173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716		44-73, 88- 110, 10- 26, 109-
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1107	HAPOW71	883889	1117	682 - 1392	2522	Glu-12 to Gln-18, Thr-41 to Asn-51, Lys-96 to Ser-104, Arg-176 to Ser-186, Ile-200 to Asn-205, Ser-224 to Ser-231.	AR096: 1, AR053: 0, AR104: 0, AR039: 0 H0457: 3, L0776: 3, H0253: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, H0586: 1, L0622: 1, H0156: 1, H0706: 1, T0048: 1, H0318: 1, H0052: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S3014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1.				125
							AR060: 9, AR096: 8, AR061: 5, AR033: 4, AR055: 4, AR089: 2, AR052: 2, AR104: 1, AR053: 0, AR039: 0 L0770: 5, L0662: 4, L0731: 4, H0624: 3, H0486: 3, L0750: 3, L0599: 3, H0713: 2, H0050: 2, H0615:				58-90, 134-159, 19-39, 111-127

1108	HBCBW64	883947	1118	563 - 78	2523	2, H0031: 2, L0774: 2, L0742: 2, L0743: 2, L0748: 2, L0747: 2, L0485: 2, H0717: 1, S0442: 1, S0222: 1, H0586: 1, H0587: 1, H0013: 1, H0427: 1, H0156: 1, H0575: 1, S0049: 1, H0194: 1, H0572: 1, L0471: 1, H0188: 1, H0553: 1, H0644: 1, H0628: 1, H0383: 1, H0316: 1, T0067: 1, L0375: 1, L0665: 1, H0144: 1, H0691: 1, L0438: 1, H0660: 1, H0648: 1, S0328: 1, S0378: 1, L0749: 1, L0779: 1, H0444: 1, L0605: 1 and H0352: 1. AR033: 5, AR089: 3, AR060: 2, AR061: 2, AR096: 1, AR052: 1, AR055: 1, AR053: 1, AR104: 0, AR039: 0 H0618: 7, H0424: 6, L0758: 6, L0777: 5, H0556: 4, H0370: 2, H0013: 2, H0253: 2, H0038: 2, H0616: 2, L0800: 2, L0776: 2, L0665: 2, S0126: 2, H0672: 2, L0602: 2, L0439: 2, L0752: 2, L0731: 2, L0595:						79-105
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1109	HBING74	883950	1119	639 - 1637	2524	Arg-6 to Val-12, Ala-16 to Asp-21, Ala-52 to Gln-58, Leu-187 to Tyr-192, Arg-282 to Pro-291, Pro-320 to Gly-328.	2, T0002: 1, H0717: 1, H0716: 1, S0134: 1, H0657: 1, H0661: 1, S0356: 1, H0722: 1, S0132: 1, H0645: 1, H0549: 1, H0586: 1, H0587: 1, H0574: 1, H0046: 1, H0569: 1, H0105: 1, H0373: 1, H0328: 1, H0688: 1, H0031: 1, H0553: 1, H0673: 1, L0435: 1, H0561: 1, H0509: 1, H0131: 1, L0639: 1, L0372: 1, L0641: 1, L0773: 1, L0648: 1, L0768: 1, L0386: 1, L0803: 1, L0775: 1, L0523: 1, L0805: 1, L0655: 1, L0659: 1, L0666: 1, L0664: 1, H0725: 1, L0438: 1, H0519: 1, H0593: 1, H0660: 1, H0539: 1, H0696: 1, L0754: 1, L0749: 1, L0599: 1, S0026: 1, H0665: 1, S0192: 1, S0194: 1, H0542: 1 and H0422: 1.				222-240
						AR039: 8, AR053: 4, AR033: 4, AR089: 3, AR055: 3, AR096: 3, AR052: 3, AR060: 2, AR104: 2, AR061: 2, H0618: 7, H0424: 6,					

1110	HBIMJ94	883951	1120	76 - 1824	2525	<p>Thr-7 to Asn-13, Arg-55 to Pro-84, Leu-142 to Val-147, Ala-160 to Arg-165, Thr-173 to Thr-182, Asp-207 to Ile-217, Ala-233 to Pro-238, Asp-249 to Asp-261, Glu-264 to Cys-270, Glu-287 to Gly-301, Ala-319 to Pro-326, Val-328 to Gly-334, Pro-344 to Thr-350.</p>	<p>H0422: 1. AR039: 16, AR033: 11, AR053: 10, AR096: 9, AR089: 9, AR052: 8, AR104: 7, AR055: 7, AR060: 5, AR061: 5 H0052: 6, L0766: 6, L0748: 5, L0747: 5, H0253: 4, L0769: 4, L0771: 4, L0756: 4, L0758: 4, S0360: 3, H0559: 3, H0124: 3, L0774: 3, L0438: 3, L0779: 3, L0731: 3, H0624: 2, S0212: 2, H0254: 2, H0662: 2, L0617: 2, H0392: 2, H0618: 2, H0123: 2, H0012: 2, H0620: 2, S0002: 2, L0796: 2, L0662: 2, L0803: 2, L0655: 2, L0789: 2, L0070: 2, L0751: 2, H0556: 1, T0002: 1, S0114: 1, H0341: 1, H0483: 1, H0255: 1, S0418: 1, S0354: 1, S0376: 1, S0045: 1, H0411: 1, H0261: 1, H0549: 1, S0222: 1, S0474: 1, S0049: 1, H0194: 1, H0545: 1, H0023: 1, H0024: 1, S0051: 1, H0510: 1, H0238: 1, S0250: 1, T0023: 1, H0553:</p>	22q13.33	532-558, 36-52, 502-518
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1111	HNFCI36	884007	1121	65 - 961	2526	Gly-5 to Gln-12, Arg-34 to Gly-39, Gly-76 to Gly-81, Glu-86 to Ile-93, Phe-97 to Ala-104.	1, H0617: 1, H0674: 1, S0366: 1, S0036: 1, H0135: 1, H0040: 1, H0087: 1, S0038: 1, T0041: 1, S0464: 1, S0440: 1, H0652: 1, L0598: 1, H0529: 1, L0369: 1, L0770: 1, L0639: 1, L0637: 1, L0764: 1, L0773: 1, L4556: 1, L0775: 1, L0805: 1, L0776: 1, L0661: 1, L0657: 1, L0659: 1, L0542: 1, L0384: 1, L0809: 1, L4501: 1, L0666: 1, H0593: 1, S0126: 1, S0330: 1, H0521: 1, H0522: 1, H0555: 1, H0187: 1, S3012: 1, S0028: 1, L0745: 1, L0757: 1, S0194: 1 and H0423: 1.	13-32, 227-244, 119-135, 208-224
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1112	HAFAH26	884076	1122	43 - 1053	2527		AR033: 7, AR060: 5, AR061: 5, AR055: 5, AR089: 4, AR052: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0643: 2, L0803: 2, S0452: 2, T0049: 1, H0580: 1, H0013: 1, H0156: 1, H0581: 1, H0179: 1, H0271: 1, H0040: 1, S0422: 1, L0369: 1, L0766: 1, L0655: 1, L0607: 1, L0791: 1, H0693: 1, H0670: 1, S0380: 1, H0579: 1, L0777: 1, L0752: 1, S0011: 1 and H0653: 1.			27-64, 22- 39, 133- 149, 186- 202, 218- 234
1113	HE8MV45	884379	1123	164 - 775	2528	Gln-109 to Gln-115, Gln-149 to Ala-154.	AR052: 6, AR055: 4, AR053: 4, AR060: 3, AR033: 3, AR096: 2, AR039: 2, AR089: 2, AR061: 2, AR104: 2			8-27, 74- 90
1114	HUKEQ96	884532	1124	865 - 563	2529	Arg-49 to Ala-55.	AR033: 19, AR104: 18, AR055: 15, AR060: 10, AR052: 9, AR061: 9, AR089: 8, AR053: 8, AR096: 8, AR039: 4 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771:			73-89, 1- 17

	6, L0743: 6, L0776: 5, S0222: 4, H0438: 4, L0351: 4, L0779: 4, S0418: 3, S0278: 3, L0770: 3, L0761: 3, L0366: 3, H0265: 2, S0040: 2, L0415: 2, S0045: 2, H0619: 2, H0643: 2, H0492: 2, H0486: 2, H0581: 2, H0620: 2, T0010: 2, H0266: 2, H0604: 2, H0031: 2, H0100: 2, L0662: 2, L0768: 2, L0665: 2, H0144: 2, L0352: 2, H0672: 2, H0521: 2, L0746: 2, L0756: 2, L0777: 2, L0731: 2, H0624: 1, T0002: 1, H0140: 1, H0583: 1, H0255: 1, H0402: 1, H0305: 1, H0458: 1, S0420: 1, S0354: 1, S0358: 1, H0645: 1, S6026: 1, S6022: 1, H0392: 1, H0559: 1, H0013: 1, H0069: 1, H0156: 1, H0590: 1, S0346: 1, H0085: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0041: 1, H0563: 1, L0471: 1, S0388: 1, S0051: 1, H0271: 1, H0416: 1, H0188: 1, H0288: 1, S0022: 1, L0483: 1, T0006:					
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								1, H0213: 1, H0628: 1, H0617: 1, L0055: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0505: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.						105-123, 143-159
1115	HKADF73	884660	1125	514 - 1134	2530	Met-1 to Ser-12, Pro-47 to Trp-55, Pro-63 to Trp-71, Pro-79 to Trp-87, Pro-95 to Pro-104, Gln-129 to Asp-137, Arg-165 to Gly-170.	AR096: 6, AR053: 5, AR052: 4, AR039: 3, AR055: 2, AR089: 2, AR104: 2, AR033: 1, AR061: 1, AR060: 1 L0769: 8, L0809: 6, L0766: 5, H0318: 4, L0581: 4, H0584: 3, H0545: 3, H0521: 3, L0748: 3, S0360:							

1116	HSLEN72	884818	1126	79 - 435	2531				1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, H0555: 1, L0756: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1, S0436: 1, S0192: 1, H0542: 1 and S0458: 1.				24-58, 95-119, 5-21
1117	HTXDM64	885098	1127	1274 - 789	2532	Lys-10 to Arg-17, Glu-31 to Ser-37, Thr-62 to Phe-70, Ser-83 to Gly-93.			AR052: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 S0028: 4, S0031: 3, H0617: 2, S0150: 2, H0381: 1, S0001: 1, S0282: 1, S0045: 1, S0222: 1, S0005: 1, H0331: 1, L0105: 1, S0050: 1, S0051: 1, H0271: 1, H0165: 1, H0056: 1, S0428: 1, S0053: 1 and S0194: 1.				98-126, 39-61

1118	HAGDJ72	885264	1128	185 - 505	2533	Met-1 to Ser-8, Val-31 to Gly-36, Ser-73 to Ala-83, Ser-97 to Phe-102.	1, L0748: 1 and L0753: 1. AR055: 10, AR033: 5, AR060: 4, AR053: 4, AR061: 4, AR052: 3, AR089: 2, AR096: 2, AR104: 2, AR039: 1 S0010: 1, L0438: 1, H0659: 1 and L0439: 1.			37-70
1119	HTPHK88	885476	1129	438 - 908	2534	Lys-26 to Glu-49, Lys-121 to Leu-131.	AR055: 9, AR060: 6, AR089: 5, AR033: 4, AR052: 4, AR053: 4, AR061: 4, AR104: 2, AR096: 2, AR039: 2 H0622: 1, H0509: 1, H0144: 1, S0126: 1, L0750: 1 and L0759: 1.			1-27, 52- 68
1120	HDPFA53	885596	1130	1038 - 1	2535	Gln-12 to Asp-18.	AR096: 9, AR060: 6, AR089: 5, AR104: 5, AR033: 4, AR039: 4, AR052: 4, AR055: 3, AR061: 2, AR053: 2 L0770: 5, L0751: 4, H0040: 3, L0766: 3, L0758: 3, S0358: 2, H0619: 2, H0266: 2, S0003: 2, H0553: 2, H0056: 2, L0775: 2, L0655: 2, L0665: 2, H0690: 2, H0696: 2, L0748: 2, L0754: 2, L0745: 2, L0777:			295-326, 279-301

1121	HMSDQ93	886043	1131	160 - 459	2536	Πε-26 to Lys-34.	AR052: 19, AR096: 14, AR089: 10, AR039: 7, AR053: 7, AR033: 6, AR060: 4, AR061: 3, AR055: 2, AR104: 1 H0580: 1, H0486: 1, H0328: 1, S0002: 1, S0330: 1 and H0521: 1.	2, L0755: 2, L0731: 2, L0759: 2, H0624: 1, H0650: 1, S0282: 1, H0661: 1, S0442: 1, S0408: 1, H0580: 1, S0222: 1, H0587: 1, H0486: 1, T0114: 1, H0156: 1, L0021: 1, H0003: 1, H0575: 1, H0004: 1, S0346: 1, H0327: 1, H0050: 1, T0010: 1, H0375: 1, H0628: 1, S0036: 1, H0163: 1, H0634: 1, H0494: 1, H0509: 1, H0649: 1, L0598: 1, H0529: 1, L0369: 1, L0764: 1, L0381: 1, L0653: 1, L0776: 1, L0629: 1, H0520: 1, H0682: 1, H0659: 1, H0539: 1, H0521: 1, S0406: 1, H0436: 1, H0540: 1, L0744: 1, L0752: 1, L0596: 1, L0485: 1, S0026: 1, S0194: 1 and H0543: 1.				61-78
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1122	HSXAD12	886222	1132	341 - 793	2537	Pro-111 to Gly-116, Ala-130 to Trp-142.	AR055: 9, AR052: 8, AR033: 6, AR060: 5, AR096: 5, AR061: 4, AR089: 4, AR039: 4, AR053: 4, AR104: 3 L0794: 10, L0766: 9, L0740: 9, L0749: 8, H0046: 7, L0758: 7, H0521: 6, L0803: 5, S0358: 4, H0457: 4, L0769: 4, L0744: 4, L0439: 4, L0747: 4, L0750: 4, L0779: 4, H0657: 3, H0266: 3, H0553: 3, H0090: 3, H0413: 3, L0770: 3, L0804: 3, L0775: 3, L0659: 3, L0438: 3, H0519: 3, S0152: 3, L0748: 3, L0731: 3, H0445: 3, S0026: 3, H0265: 2, S0212: 2, S0278: 2, H0050: 2, S0440: 2, S0002: 2, L0763: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0809: 2, L0789: 2, S0126: 2, H0659: 2, H0660: 2, S0330: 2, H0539: 2, L0751: 2, L0777: 2, L0757: 2, L0595: 2, H0423: 2, H0624: 1, S0040: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0420: 1,			5-26, 54- 70, 73-89
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1123	HWBAL42	886307	1133	563 - 177	2538	Arg-37 to Arg-46, Ser-71 to Gln-76.	AR052: 13, AR053: 9, AR096: 4, AR089: 4, AR060: 2, AR033: 2, AR104: 2, AR039: 1, AR055: 1, AR061: 1 H0547: 4, H0251: 3, H0521: 3, H0542: 3, H0266: 2, H0040: 2, L0646: 2, L0659: 2, L0665: 2, L0743: 2, L0754: 2, S0116: 1, S0354: 1, S0376: 1, H0580: 1, H0742: 1, H0486: 1, H0575: 1, H0318: 1, H0457: 1, H0084: 1, H0212: 1, H0059: 1, H0509: 1, H0142: 1, S0002: 1, L0764: 1, L0662: 1, L0626: 1, L0766: 1, L0809: 1, H0519: 1, H0672: 1, S0378: 1, S0174: 1, H0626: 1, S0027: 1, L0780: 1, L0755: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1 and H0422: 1.			48-65
1124	HUJBO10	886364	1134	204 - 1079	2539	Gln-56 to Leu-68, Glu-88 to Asn-95, Glu-122 to Leu-127, Val-136 to Cys-145, Gly-185 to Leu-191, Leu-239 to Lys-252.	AR089: 2, AR053: 2, AR060: 2, AR033: 2, AR104: 2, AR096: 2, AR039: 1, AR055: 1, AR061: 1, AR052: 0 L0779: 3, H0650: 1, H0560: 1, L0770: 1, L0806:			249-282, 274-290, 31-47

1125	HMUAP06	886417	1135	1684 - 905	2540	Val-62 to Gly-67, Glu-130 to Leu-135, Glu-164 to Glu-179, Glu-213 to Gly-223.	1, L0655: 1, H0444: 1, L0596: 1, L0591: 1 and S0424: 1. AR052: 5, AR053: 4, AR039: 3, AR033: 2, AR104: 2, AR089: 2, AR055: 2, AR096: 2, AR061: 2, AR060: 1 S0212: 1, T0114: 1, H0253: 1, H0266: 1, H0644: 1, H0494: 1, H0529: 1, H0435: 1, L0759: 1, L0596: 1 and H0423: 1.				239-255, 138-154, 179-195
1126	HLYCA31	886496	1136	956 - 261	2541	Met-1 to Pro-7, Ser-12 to His-19.	AR039: 25, AR033: 16, AR089: 13, AR104: 12, AR096: 12, AR053: 11, AR052: 10, AR055: 9, AR060: 9, AR061: 7 H0052: 3, L0666: 3, L0758: 3, S0007: 2, H0201: 2, H0090: 2, H0672: 2, L0748: 2, L0747: 2, L0749: 2, L0752: 2, H0445: 2, H0265: 1, S0134: 1, S0212: 1, S0348: 1, S0045: 1, H0393: 1, S0222: 1, T0060: 1, H0013: 1, T0082: 1, H0318: 1, L0471: 1, H0266: 1, L0455: 1, L0456: 1,				175-208

1127	HETIY94	886524	1137	88 - 612	2542	Pro-15 to Glu-25, Ala-107 to Gln-112.	S0366: 1, H0561: 1, H0131: 1, S0150: 1, H0538: 1, S0422: 1, L0774: 1, L0636: 1, H0547: 1, H0593: 1, S0136: 1, S0028: 1, L0751: 1, L0745: 1, L0779: 1, L0731: 1, L0759: 1, H0707: 1, H0423: 1 and S0446: 1. AR089: 6, AR055: 5, AR060: 5, AR033: 3, AR061: 3, AR052: 3, AR096: 3, AR104: 3, AR053: 2, AR039: 2 L0751: 2, L0803: 1, L0805: 1, S0374: 1, H0658: 1 and L0747: 1.				23-59	
1128	HRGBW44	886559	1138	78 - 1259	2543	Glu-7 to Trp-15, Glu-24 to Arg-31, Arg-71 to Pro-80, Glu-91 to Pro-98, Gln-112 to Thr-130, Asp-168 to Leu-175, Lys-202 to Lys-207, Glu-291 to Pro-298, Lys-332 to Ile-340, Asp-343 to Glu-351, Lys-363 to Ser-380, Leu-386 to Ala-393.	AR052: 49, AR096: 28, AR089: 27, AR053: 22, AR060: 20, AR039: 18, AR033: 11, AR061: 9, AR055: 6, AR104: 5, H0617: 6, L0748: 5, L0809: 4, L0581: 4, L0789: 3, L0747: 3, L0779: 3, L0518: 2, S0330: 2, L0743: 2, L0439: 2, L0749: 2, L0750: 2, H0170: 1, H0484: 1, H0497: 1, H0427: 1, H0599: 1, H0618: 1, H0544: 1				37-56, 306-326, 258-281, 209-225, 178-194, 139-155	

1129	HMTAU01	886593	1139	274 - 1629	2544	His-17 to Arg-24, Asp-46 to Leu-51, Glu-161 to Glu-172, Arg-273 to Glu-284, Pro-291 to Lys-296, Pro-317 to Ala-326, Pro-393 to Pro-410, Glu-416 to Ile-421.	AR053: 4, AR052: 4, AR096: 4, AR089: 3, AR060: 2, AR033: 2, AR055: 1, AR061: 1, AR104: 1, AR039: 0 L0748: 5, H0351: 3, L0794: 3, L0803: 3, L0779: 3, H0423: 3, L0766: 2, L0804: 2, H0686: 1, S0116: 1, S0354: 1, H0411: 1, H0600: 1, H0587: 1, H0486: 1, H0421: 1, H0565: 1, L0060: 1, H0551: 1, H0268: 1, H0059: 1, S0440: 1, H0646: 1, L0800: 1, L0805: 1, L0653: 1, L0776: 1,	1, H0545: 1, H0150: 1, H0009: 1, H0562: 1, S0388: 1, H0687: 1, H0181: 1, H0166: 1, H0264: 1, S0112: 1, H0494: 1, H0509: 1, S0144: 1, S0344: 1, L0640: 1, L0770: 1, L0769: 1, L0766: 1, L0803: 1, L0776: 1, L0636: 1, L0790: 1, L0665: 1, H0547: 1, S0126: 1, H0672: 1, H0518: 1, H0134: 1, L0759: 1, S0434: 1, L0592: 1, H0543: 1, H0422: 1 and H0352: 1.				101-123, 138-154, 327-343, 365-381, 206-222, 77-93
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1130	HDPVO38	886670	1140	49 - 1644	2545	Pro-46 to Arg-51, Leu-65 to Asp-70, Thr-103 to Pro-113.	S0374: 1, H0658: 1, H0518: 1, H0436: 1, L0749: 1, L0758: 1, S0276: 1 and L0465: 1. AR033: 2, AR089: 2, AR060: 1, AR053: 1, AR039: 1, AR061: 1, AR055: 1, AR052: 0, AR096: 0, AR104: 0 L0794: 6, L0749: 5, L0756: 5, S0192: 5, L0805: 4, L0747: 4, L0752: 4, L0455: 3, H0038: 3, L0770: 3, L0793: 3, L0591: 3, H0046: 2, H0135: 2, L0769: 2, L0637: 2, L0776: 2, L0659: 2, L0518: 2, L0809: 2, L0565: 2, H0522: 2, L0748: 2, S0282: 1, H0664: 1, S0418: 1, S0420: 1, S0007: 1, S0132: 1, H0333: 1, H0486: 1, H0618: 1, S0010: 1, H0596: 1, L0040: 1, L0471: 1, S0051: 1, T0023: 1, H0316: 1, H0494: 1, S0440: 1, H0509: 1, H0647: 1, L0640: 1, L0772: 1, L0800: 1, L0641: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0651: 1,				271-288, 338-355, 128-144, 230-246, 311-327
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1131	HSDKL35	886684	1141	137 - 484	2546				L0628: 1, L0559: 1, L0542: 1, L0787: 1, L0790: 1, L0665: 1, T0068: 1, H0547: 1, H0689: 1, H0684: 1, H0672: 1, S0378: 1, H0521: 1, H0555: 1, H0478: 1, S0028: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, S0308: 1, L0361: 1 and S0458: 1.				24-55, 45-66, 1-22
									AR033: 11, AR104: 6, AR053: 5, AR089: 5, AR052: 5, AR061: 5, AR060: 5, AR055: 4, AR096: 4, AR039: 3, L0803: 13, L0794: 11, S0358: 10, L0766: 7, S0126: 7, L0439: 7, L0659: 6, L0608: 6, S0212: 5, H0521: 5, L0777: 5, S0360: 4, H0644: 4, L0769: 4, L0805: 4, L0809: 4, L0754: 4, S0354: 3, S0010: 3, H0581: 3, L0483: 3, L0800: 3, L0764: 3, L0806: 3, L0663: 3, S0374: 3, L0740: 3, L0591: 3, H0624: 2, H0638: 2, S0356: 2, S0132: 2, H0327: 2, H0510: 2, H0031: 2, S0036: 2, L0771: 2,				

	L0662: 2, L0651: 2, H0519: 2, H0689: 2, H0518: 2, H0552: 2, S3014: 2, S0028: 2, L0745: 2, L0779: 2, L0752: 2, L0731: 2, L0757: 2, S0434: 2, L0596: 2, L0589: 2, L0599: 2, L0362: 2, H0170: 1, H0556: 1, S6024: 1, S0116: 1, S0282: 1, S0400: 1, H0661: 1, S0444: 1, H0676: 1, S0408: 1, T0008: 1, H0637: 1, H0580: 1, S0046: 1, L0717: 1, H0013: 1, L0021: 1, H0318: 1, S0474: 1, S0049: 1, H0263: 1, H0596: 1, H0024: 1, L0163: 1, S0051: 1, H0355: 1, S0003: 1, H0252: 1, T0006: 1, H0628: 1, H0124: 1, H0090: 1, H0040: 1, H0634: 1, S0372: 1, S0440: 1, H0633: 1, S0144: 1, S0426: 1, H0517: 1, L0796: 1, L0761: 1, L0667: 1, L0373: 1, L0374: 1, L0773: 1, L0364: 1, L0387: 1, L0804: 1, L0650: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0628: 1, L0657: 1, L0782: 1.	
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1132	HTLJA77	886742	1142	213 - 605	2547	Gly-13 to Pro-21, Ser-67 to Pro-73, Gly-92 to Leu-98.	L0790: 1, L0666: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0522: 1, S0404: 1, S0406: 1, L0747: 1, L0756: 1, L0758: 1, S0260: 1, H0445: 1, L0366: 1, S0011: 1, H0665: 1, S0196: 1 and H0542: 1. AR055: 12, AR061: 6, AR060: 6, AR033: 6, AR089: 5, AR096: 5, AR052: 5, AR039: 4, AR104: 3, AR053: 3 L0752: 7, L0747: 6, L0666: 5, L0803: 4, L0776: 4, S0222: 3, L0662: 3, L0766: 3, L0777: 3, L0361: 3, S0114: 2, H0254: 2, H0661: 2, S0354: 2, H0618: 2, H0594: 2, H0188: 2, H0424: 2, H0135: 2, L0764: 2, L0805: 2, L0655: 2, L0789: 2, L0532: 2, S0052: 2, L0438: 2, H0521: 2, L0742: 2, L0743: 2, L0754: 2, L0750: 2, L0755: 2, H0422: 2, H0685: 1, S0342: 1, H0713: 1, S0134: 1.						37-67
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1133	HCFLJ17	886761	1143	34 - 381	2548	Glu-8 to Glu-18, Glu-32 to Ser-56.	H0583: 1, H0255: 1, H0402: 1, S0358: 1, S0476: 1, L0717: 1, H0392: 1, H0455: 1, H0613: 1, L0586: 1, S0280: 1, L0021: 1, H0706: 1, H0390: 1, H0581: 1, H0251: 1, H0544: 1, H0545: 1, H0046: 1, L0471: 1, T0010: 1, H0028: 1, H0615: 1, H0604: 1, H0673: 1, H0708: 1, H0413: 1, H0102: 1, L0770: 1, L0769: 1, L0772: 1, L0646: 1, L0364: 1, L0794: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0435: 1, H0658: 1, H0660: 1, H0696: 1, H0576: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, L0366: 1, S0194: 1, H0423: 1, S0458: 1, S0446: 1, H0506: 1 and H0352: 1. AR052: 8, AR053: 7, AR039: 6, AR096: 6, AR033: 5, AR089: 4, AR060: 4, AR055: 4, AR104: 3, AR061: 2						88-107
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1134	HNGKM74	886937	1144	26 - 988	2549	Phe-140 to Lys-151.	1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L4501: 1, L0666: 1, H0520: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0521: 1, H0555: 1, H0436: 1, S0028: 1, L0742: 1, L0756: 1, S0192: 1, S0242: 1, S0194: 1 and S0276: 1.					168-190, 97-114, 207-223
1135	HTTJQ27	887007	1145	112 - 666	2550	Pro-2 to Cys-7, Ile-113 to Lys-118, Glu-162 to Ala-170.	AR061: 4, AR055: 4, AR053: 4, AR060: 3, AR089: 3, AR052: 3, AR039: 3, AR033: 3, AR096: 3, AR104: 2 L0800: 1 and S0428: 1. AR055: 3, AR061: 3, AR033: 3, AR052: 3, AR089: 3, AR060: 2, AR096: 2, AR104: 2, AR053: 1, AR039: 1 S0250: 3, L0659: 3, H0038: 2, S0002: 2, S0330: 2, S0360: 1, H0604: 1, H0634: 1, L0764: 1, L0766: 1, H0660: 1, S0380: 1 and L0751: 1.					49-66
1136	HBCBF11	887008	1146	80 - 733	2551	Ser-57 to Gly-72, Thr-91 to Gly-96.	AR053: 2, AR089: 2, AR096: 2, AR055: 1,					125-159

1137	HFOYG86	887019	1147	247 - 570	2552	Arg-26 to Gly-34, Tyr-71 to Lys-77.	Asn-104 to Gln-112, Asp-119 to Lys-126.	AR052: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 1, AR033: 1 H0592: 2, L0754: 2, S0132: 1, H0370: 1, H0587: 1, S0344: 1, L0665: 1, H0682: 1 and H0555: 1.				77-102, 47-68
1138	HKGCI92	887027	1148	504 - 1166	2553	Lys-19 to Val-24, Ser-27 to Asn-37, Asn-82 to Leu-87.		AR039: 3, AR060: 3, AR089: 2, AR096: 2, AR055: 1, AR104: 1, AR033: 1, AR053: 1, AR061: 1, AR052: 0 H0538: 4, S0374: 4, S0444: 2, L0748: 2, S0442: 1, S0358: 1, H0156: 1, L0803: 1, L0774: 1 and L0608: 1.			182-208	
1139	HFPAB23	887054	1149	55 - 417	2554	Met-1 to Ile-11, Ser-21 to Val-26, Asn-42 to Asp-50, Gln-57 to Val-66, Gly-88 to Ala-98.		AR052: 7, AR061: 6, AR104: 5, AR055: 5, AR033: 5, AR060: 5, AR089: 4, AR096: 4, AR053: 2, AR039: 2			103-121	

1140	HWAGL92	887056	1150	769 - 185	2555	Pro-22 to Gly-28, Gln-32 to Gln-38, Ser-60 to Phe-68, Cys-104 to Tyr-110, Lys-163 to Ser-172, Ser-175 to His-182, Gln-185 to Trp-194.	H0171: 2, L0747: 2, H0624: 1, S6016: 1, S0222: 1, S0010: 1, H0620: 1, L0666: 1, L0665: 1 and L0777: 1. AR096: 16, AR033: 6, AR039: 6, AR053: 6, AR055: 4, AR052: 4, AR089: 4, AR060: 3, AR061: 2, AR104: 2 H0692: 7, L0766: 5, H0393: 3, H0250: 3, H0581: 3, L0779: 3, L0755: 3, S0354: 2, S0408: 2, L0754: 2, S0358: 1, S0376: 1, S0360: 1, H0640: 1, H0574: 1, H0486: 1, H0013: 1, H0004: 1, H0421: 1, H0239: 1, H0252: 1, H0031: 1, H0553: 1, H0644: 1, H0634: 1, S0144: 1, S0344: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, S0374: 1, H0518: 1, S0044: 1, S0404: 1, H0555: 1, L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0599: 1, H0653: 1 and H0506: 1.					127-160, 80-96, 44- 60
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1141	HADME31	887280	1151	126 - 443	2556		AR096: 6, AR055: 6, AR039: 5, AR089: 5, AR033: 5, AR053: 5, AR060: 5, AR061: 5, AR052: 4, AR104: 3 L0747: 7, L0750: 6, L0770: 4, L0758: 4, L0769: 3, L0774: 2, L0748: 2, L0759: 2, S6024: 1, S0356: 1, S0360: 1, S0408: 1, H0333: 1, H0559: 1, H0486: 1, S0280: 1, H0390: 1, H0545: 1, L0471: 1, S0440: 1, H0641: 1, L0763: 1, L0775: 1, L0783: 1, L0809: 1, H0144: 1, H0690: 1, H0521: 1, S3012: 1, L0749: 1, L0752: 1 and L0590: 1.			88-105
1142	HEGBA84	887341	1152	17 - 1186	2557	Ser-17 to Ser-23, Gly-44 to Pro-50.	AR039: 27, AR033: 17, AR089: 17, AR104: 16, AR053: 16, AR055: 15, AR060: 13, AR052: 12, AR096: 12, AR061: 9 L0769: 5, L0779: 4, L0759: 4, L0770: 3, L0775: 3, L0776: 3, L0439: 3, L0740: 2, L0747: 2, L0777: 2, L0601: 2, S0418: 1, L0429: 1, H0550: 1, H0253: 1, H0081: 1, H0207: 1,			145-162, 116-132

1143	HWHPM7 4	887540	1153	116 - 1048	2558	Gln-71 to Tyr-78, Pro-130 to Ser-135.	H0646: 1, L0764: 1, L0773: 1, L0768: 1, L0549: 1, L0381: 1, L0774: 1, L0375: 1, L0783: 1, S0052: 1, H0547: 1, H0658: 1, H0521: 1, H0555: 1, S0028: 1, L0751: 1, L0752: 1 and L0755: 1.				223-260, 18-34
1144	HHEEU21	887582	1154	49 - 1041	2559	Glu-69 to Glu-74, Thr-78 to Arg-85, Lys-100 to Tyr-107, Pro-185 to Thr-194, Arg-249 to Ser-254, Thr-259 to Arg-269, His-289 to Ile-296, Thr-298 to Asp-303, Asn-312 to Ser-322.	AR096: 10, AR089: 7, AR060: 5, AR055: 5, AR053: 5, AR061: 5, AR039: 4, AR033: 4, AR104: 3, AR052: 2 H0494: 5, L0777: 3, L0747: 2, H0586: 1, H0587: 1, H0038: 1, L0768: 1, L0389: 1, L0775: 1, L0376: 1, L0806: 1, H0519: 1, S0328: 1, S0330: 1, S3014: 1, L0731: 1 and L0758: 1.				221-251, 3-19, 49- 65

1145	HKLSC61	887803	1155	407 - 757	2560	Lys-14 to Ser-20, Pro-34 to Ser-39, Ser-89 to Ser-95.	AR039: 26, AR052: 20, AR053: 16, AR033: 14, AR104: 13, AR060: 12, AR055: 12, AR096: 12, AR061: 12, AR089: 12 H0251: 1, H0235: 1 and S0050: 1.			39-77, 68- 88
1146	HEOMP62	887943	1156	193 - 753	2561	Gln-13 to Lys-20, Lys-26 to Ala-34, Met-72 to Leu-78.	AR039: 38, AR053: 22, AR096: 20, AR104: 19, AR055: 19, AR033: 17, AR052: 15, AR089: 15, AR060: 11, AR061: 7 H0457: 4, L0794: 3, H0580: 2, S0344: 2, L0667: 2, L0809: 2, H0583: 1, S0116: 1, H0581: 1, H0421: 1, H0439: 1, H0179: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, H0710: 1, S0190: 1 and L0747: 1.			36-69
1147	HLJEB18	888028	1157	328 - 1248	2562	Glu-14 to Ser-22, Thr-70 to Arg-76, Gln-90 to Gly-101, Asn-167 to Ser-172, Glu-179 to Ala-186, Val-193 to Gln-200, Leu-210 to Ser-217, Gln-239 to Gln-244, Glu-254 to Asn-266.	AR039: 61, AR104: 30, AR033: 27, AR053: 25, AR096: 23, AR089: 20, AR052: 20, AR055: 16, AR060: 15, AR061: 13 H0584: 26, H0265: 4, H0167: 3, S0114: 3, H0542: 3, H0556: 2, H0486: 2, T0042: 2, H0423: 2, H0575: 2.			276-307, 104-120

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1148	HAMFN18	888042	1158	50 - 412	2563	Ser-31 to Gly-40.			AR096: 6, AR089: 6, AR052: 5, AR053: 5, AR033: 4, AR039: 4, AR055: 4, AR060: 3, AR104: 2, AR061: 2 H0497: 1, H0560: 1, S0028: 1 and H0667: 1.				50-68	
1149	HWAEU20	888047	1159	416 - 1183	2564	Ile-74 to Ser-86, Thr-136 to Lys-144, Lys-250 to Glu-256.			AR096: 6, AR033: 5, AR053: 4, AR052: 3, AR039: 3, AR089: 2, AR055: 2, AR061: 1, AR060: 1, AR104: 1 H0581: 1				99-126, 23-42, 1- 18, 218- 235, 157- 173, 52-68	
1150	HDPBG11	888121	1160	39 - 734	2565	Val-3 to Pro-8, Val-14 to Ile-19, Pro-23 to Gly-31, Ser-93 to Asp-100.			AR060: 6, AR039: 5, AR055: 5, AR089: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 4, AR052: 2, AR104: 2, S0476: 41, H0271: 33, S0132: 14, H0521: 14, S0046: 13, H0623: 13, H0416: 7, H0634: 6, H0575: 5, H0522: 5, S0436: 5,				38-67	

H0638: 4, H0250: 4, H0641: 4, S0053: 4, H0556: 3, H0437: 3, H0069: 3, H0179: 3, H0551: 3, H0056: 3, L0794: 3, S0052: 3, H0159: 2, H0657: 2, H0663: 2, S0278: 2, H0431: 2, H0457: 2, H0719: 2, L0483: 2, H0649: 2, L0771: 2, L0662: 2, H0689: 2, H0518: 2, L0581: 2, H0713: 1, T0049: 1, H0656: 1, S0298: 1, H0662: 1, S0418: 1, S0442: 1, S0358: 1, H0392: 1, H0442: 1, H0587: 1, H0486: 1, T0109: 1, H0190: 1, H0635: 1, H0042: 1, H0530: 1, H0544: 1, H0545: 1, H0150: 1, S0051: 1, S0316: 1, T0023: 1, H0379: 1, S0016: 1, H0560: 1, H0561: 1, H0509: 1, H0633: 1, S0344: 1, S0426: 1, L0763: 1, L3904: 1, L0761: 1, L0667: 1, L0767: 1, L0649: 1, L0388: 1, L0775: 1, L0806: 1, L0805: 1, L0656: 1, L0809: 1, L0790: 1, L0663: 1, L0665: 1, S0428: 1, S0216: 1, H0435: 1,

1151	HHFJ187	888142	1161	204 - 953	2566				H0666: 1, H0672: 1, S0378: 1, H0528: 1, S0044: 1, H0187: 1, S0032: 1, L0749: 1, L0750: 1, L0759: 1, S0434: 1, L0593: 1 and H0422: 1.				136-162, 176-204, 76-95, 108-124, 2-18	
									AR055: 9, AR039: 5, AR053: 4, AR089: 4, AR060: 4, AR052: 4, AR061: 3, AR033: 3, AR104: 2, AR096: 2 L0666: 6, L0776: 4, H0039: 2, H0622: 2, L0633: 2, L0439: 2, S0354: 1, H0619: 1, H0357: 1, H0590: 1, S0010: 1, H0596: 1, L0644: 1, L0805: 1 and H0144: 1.					
1152	HWLEQ41	888156	1162	93 - 950	2567				AR089: 30, AR096: 29, AR104: 25, AR033: 22, AR052: 18, AR053: 14, AR060: 9, AR039: 6, AR055: 5, AR061: 4 S0354: 9, S0358: 3, H0494: 3, H0519: 2, H0521: 2, L0754: 2, H0170: 1, S0040: 1, S0114: 1, H0484: 1, H0483: 1, H0255: 1, S0376: 1, S0046: 1, H0619:				158-177, 132-150, 73-91, 193-209, 228-244, 253-269	

1153	HTOIB37	888174	1163	773 - 1582	2568	Thr-155 to Cys-161, Arg-182 to Arg-194, Leu-209 to Lys-214.	1, H0549: 1, H0042: 1, S0474: 1, H0581: 1, H0052: 1, H0083: 1, L0773: 1, L0517: 1, L0383: 1, S0374: 1, S0152: 1, S014: 1, L0751: 1, L0759: 1, H0543: 1 and H0422: 1.				76-92, 16- 32, 101- 117, 34- 50, 137- 153
1154	HTGBM16	888244	1164	96 - 1118	2569	Ser-74 to Gln-82, Ser-170 to Asn-178, His-186 to Ala-199, Arg-209 to Leu-216.	AR060: 57, AR055: 52, AR039: 40, AR104: 39, AR033: 37, AR053: 35, AR089: 30, AR061: 26, AR096: 12, AR052: 6 H0618: 4, H0254: 3, H0255: 3, L0748: 3, H0253: 2, H0617: 2, L0438: 2, L0361: 2, S0442: 1, S0360: 1, S0468: 1, H0370: 1, H0333: 1, H0581: 1, H0252: 1, H0032: 1, H0264: 1, H0413: 1, H0529: 1, L0768: 1, H0672: 1, L0777: 1 and H0542: 1.				231-250, 2-19, 43- 59, 100- 116

1155	HOUGB95	888279	1165	73 - 795	2570	<p>Glu-69 to Ser-74, Glu-80 to Asp-88, Phe-98 to Leu-104, Gln-140 to Ala-148, Glu-153 to Leu-158, Ala-175 to Ala-197, Met-210 to Leu-223, Glu-225 to Leu-241.</p>	<p>1, H0586: 1, H0575: 1, T0082: 1, H0031: 1, H0644: 1, H0090: 1, H0551: 1, H0144: 1, H0435: 1, L0439: 1, L0755: 1 and L0595: 1. AR033: 3, AR089: 3, AR061: 3, AR060: 2, AR039: 2, AR096: 1, AR052: 1, AR104: 1, AR055: 1, AR053: 0 S0436: 7, H0551: 6, H0599: 5, L0756: 5, L0758: 5, L0759: 5, L0754: 4, L0747: 4, H0545: 3, S0003: 3, L0375: 3, H0144: 3, L0755: 3, S0442: 2, S0045: 2, H0013: 2, L0471: 2, H0373: 2, H0051: 2, H0560: 2, S0422: 2, L0768: 2, L0803: 2, L0659: 2, L0438: 2, L0439: 2, L0740: 2, L0750: 2, L0779: 2, L0757: 2, S0242: 2, H0739: 1, H0624: 1, S0040: 1, S0342: 1, S0116: 1, S0212: 1, S0444: 1, H0357: 1, H0587: 1, L0021: 1, S0010: 1, L0105: 1, S0474: 1, H0544: 1, H0046: 1, S0051: 1, H0266: 1, H0622: 1, H0032:</p>			43-70, 4- 29, 107- 124
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1156	HTELC21	888321	1166	88 - 453	2571				AR053: 16, AR039: 15, AR033: 13, AR055: 13, AR052: 10, AR089: 10, AR061: 9, AR096: 7, AR060: 7, AR104: 4 H0253: 8, H0038: 4, H0616: 3, H0618: 2, L0758: 2, L0794: 1 and L0779: 1.				12-37, 50- 77, 85- 101, 40-56
1157	HTPGV36	888376	1167	2639 - 306	2572	Pro-51 to Ala-59.		Xp11.23	AR104: 19, AR033: 18, AR089: 12, AR055: 9, AR060: 6, AR061: 6, AR096: 6, AR052: 5, AR053: 5, AR039: 4 H0695: 78, L0747: 13, H0013: 12, L0665: 11, L0662: 10, H0547: 10, L0592: 10, S0360: 8, H0545: 8, L0659: 8, L0666: 8, H0580: 7, S0010: 7, H0519: 7, L0748: 6, L0595:	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050,	555-575, 536-552, 760-776		

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1158	HFTDC58	888528	1168	296 - 604	2573				1, S0032: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0581: 1, L0593: 1, L0366: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0194: 1 and H0423: 1.				53-73	
1159	HMUAG30	888542	1169	1399 - 449	2574	Pro-23 to Pro-36, Asp-54 to Asp-61, Gln-67 to Gly-76.			AR052: 2, AR033: 2, AR053: 2, AR096: 1, AR089: 1, AR060: 1, AR039: 0, AR061: 0, AR104: 0 H0599: 2, S0474: 2, H0266: 2, L0759: 2, H0556: 1, H0638: 1, S0418: 1, H0733: 1, S6022: 1, L0021: 1, S0010: 1, H0581: 1, H0123: 1, H0050: 1, H0024: 1, H0553: 1, H0644: 1, H0708: 1, L0763: 1, L0641: 1, L0766: 1, L0805: 1, L0655: 1, H0539: 1, S0028: 1, L0756: 1 and L0777: 1.				253-282, 201-228, 124-146, 163-179, 231-247	

1160	HCBME31	888903	1170	79 - 624	2575	Pro-51 to Ser-58.	H0553: 1, H0628: 1, H0488: 1, H0529: 1, S0310: 1, H0435: 1 and L0439: 1. AR096: 3, AR055: 2, AR089: 1, AR052: 1, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR033: 1, AR039: 1 S0002: 2, L0785: 1, H0661: 1, H0587: 1, H0635: 1, H0051: 1, S0003: 1, S0438: 1, S0344: 1, L0761: 1, L0649: 1, L0792: 1 and L0731: 1.				70-95, 29-45, 1-17
1161	HPMGA51	888905	1171	1129 - 644	2576	Pro-49 to His-57, Pro-64 to Asp-73, Thr-100 to Arg-106, Lys-145 to Glu-151.	AR055: 4, AR096: 3, AR060: 3, AR053: 3, AR104: 2, AR052: 2, AR033: 2, AR089: 2, AR061: 1, AR039: 0 H0031: 2, L0600: 2, H0713: 1, S0052: 1, H0539: 1, S0436: 1 and L0603: 1.				104-131
1162	HDQDC13	888998	1172	5 - 643	2577	Gln-15 to Gly-23.	AR053: 2, AR052: 1, AR033: 1, AR096: 1, AR089: 0, AR060: 0, AR061: 0, AR055: 0, AR104: 0, AR039: 0 L0766: 7, H0556: 6, L0662: 4, L0789: 4, L0438:	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760,	173-189, 105-121	

1163	HLHFX80	889324	1173	81 - 473	2578	Arg-16 to Ser-25, Phe-30 to Asp-38, Gln-97 to Lys-104, Ser-113 to His-119.	1, H0423: 1 and L0600: 1. AR039: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 0, AR055: 0, AR052: 0 H0556: 1, L0534: 1, H0431: 1, H0024: 1 and S0428: 1.				61-81
1164	HSLKC45	889371	1174	124 - 1245	2579	Ser-75 to Leu-81, Arg-101 to Ala-112, Gln-162 to Asn-172, Tyr-178 to Leu-197, Glu-204 to Arg-219, Arg-252 to Ile-269, Pro-271 to Asp-280, Glu-297 to Lys-303, Glu-313 to Asn-325, Ser-354 to Gly-365.	AR055: 7, AR033: 7, AR060: 5, AR052: 4, AR089: 4, AR061: 4, AR053: 4, AR096: 3, AR104: 2, AR039: 2 H0545: 2, L0659: 2, H0265: 1, H0556: 1, H0295: 1, S0418: 1, S0420: 1, S0358: 1, L0717: 1, H0635: 1, H0551: 1, T0067: 1, H0494: 1, L0662: 1, L0804: 1, L0809: 1, S0126: 1, H0658: 1, H0521: 1, S0390: 1, L0780: 1, L0731: 1, S0436: 1 and H0423: 1.				220-252, 2-26
1165	H0GBN93	889792	1175	503 - 3	2580	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Gly-137.	AR039: 42, AR052: 40, AR053: 25, AR033: 24, AR104: 22, AR089: 20, AR096: 17, AR060: 13, AR061: 13, AR055: 12				59-78, 31- 51, 95- 112, 7-23, 146-162

1166	HTPHE46	889999	1176	96 - 653	2581	Glu-13 to Gln-22, Pro-86 to Asp-91, Arg-98 to Gly-104, Gln-170 to Cys-183.	H0521: 2, L0770: 1, L0766: 1, H0435: 1 and H0712: 1. AR039: 19, AR060: 12, AR096: 10, AR104: 9, AR053: 9, AR055: 9, AR033: 8, AR052: 7, AR089: 7, AR061: 5 S0414: 9, S0422: 7, L0662: 7, S0444: 6, L0748: 4, L0754: 4, L0581: 4, S0442: 3, H0031: 3, L0666: 3, H0656: 2, S0358: 2, S0360: 2, H0013: 2, L0471: 2, S0438: 2, S0440: 2, L0598: 2, L0803: 2, L0540: 2, L0756: 2, L0752: 2, L0758: 2, L0759: 2, S0242: 2, H0624: 1, S0282: 1, H0393: 1, H0586: 1, H0574: 1, H0036: 1, H0004: 1, T0103: 1, T0110: 1, H0571: 1, H0569: 1, H0123: 1, H0594: 1, S6028: 1, H0622: 1, UNKWN: 1, L0649: 1, L0381: 1, L0776: 1, L0659: 1, L0528: 1, L0792: 1, L0793: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0593:				34-58, 63- 83
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1167	HTXQU08	890638	1177	218 - 661	2582	Pro-38 to Arg-44, Leu-88 to His-93, Asp-100 to Ser-106, Pro-119 to Cys-126.	1, H0690: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, L0744: 1, L0731: 1 and S0276: 1. AR055: 7, AR052: 5, AR053: 4, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR033: 3, AR039: 2, AR104: 1 H0271: 8, L0759: 4, L0779: 3, L0755: 3, H0222: 2, H0575: 2, H0705: 2, H0581: 2, L0803: 2, L0659: 2, L0790: 2, L0754: 2, L0749: 2, L0777: 2, H0556: 1, H0159: 1, T0049: 1, H0650: 1, S0045: 1, T0060: 1, H0046: 1, L0163: 1, S0051: 1, H0030: 1, H0553: 1, H0628: 1, H0038: 1, H0268: 1, H0059: 1, S0422: 1, H0529: 1, L0770: 1, L0667: 1, L0800: 1, L0641: 1, L0773: 1, L0662: 1, L0794: 1, L0766: 1, L0650: 1, L0375: 1, L0530: 1, L0791: 1, L0663: 1, S0216:					59-78
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1168	HE8MU78	890664	1178	126 - 1160	2583	Cys-21 to Asn-32, Leu-48 to Arg-53, Gln-154 to Leu-161, Pro-213 to Asp-220, Pro-257 to Glu-265, Lys-274 to Asn-281, Ala-326 to Pro-344.	1, S0380: 1, S0027: 1, L0748: 1, L0731: 1, L0757: 1, L0758: 1 and L0591: 1. AR096: 18, AR052: 15, AR089: 10, AR060: 9, AR053: 8, AR104: 5, AR033: 4, AR061: 4, AR055: 3, AR039: 2 T0006: 34, L0753: 8, H0013: 2, L0750: 2, T0082: 1, L0745: 1, L0779: 1 and L0759: 1.				281-316, 1-22
1169	HTNBJ17	890703	1179	498 - 824	2584	Gln-8 to Ser-13, Arg-21 to Ser-27, Glu-37 to Lys-42.	AR055: 5, AR096: 4, AR052: 4, AR053: 3, AR060: 3, AR061: 3, AR089: 3, AR033: 3, AR104: 2, AR039: 0 L0748: 12, L0747: 11, S0358: 10, L0766: 8, L0794: 6, L0740: 6, L0779: 6, H0556: 5, L0803: 5, L0749: 5, H0266: 4, L0743: 4, L0744: 4, L0758: 4, H0624: 3, H0265: 3, L0776: 3, S0404: 3, S3014: 3, L0752: 3, L0731: 3, L0599: 3, H0661: 2, L0005: 2, S0360: 2, H0580: 2, S0046: 2, H0645: 2, H0013: 2,				85-109

1170	HTTJZ84	890714	1180	1309 - 311	2585	Leu-2 to Asn-7, Glu-129 to Gly-137, Glu-279 to Lys-284, Pro-318 to Leu-333.	AR055: 4, AR033: 3, AR061: 3, AR096: 3, AR052: 2, AR060: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 0 S0474: 4, S0052: 4, H0265: 3, S0046: 3, S0344: 3, T0007: 2, S0132: 2, S0476: 2, H0253: 2, H0545: 2, H0551: 2, H0412: 2, L5623: 2, L0777: 2, L0757: 2, L0588: 2, S0446: 2, H0664: 1, H0489: 1, H0069: 1, H0635: 1, H0706: 1, H0618: 1, H0318: 1, H0581: 1, H0544: 1, H0023: 1, H0247: 1, H0271: 1, H0424: 1, H0628: 1, H0617: 1, H0634: 1, S0142: 1, S0210: 1, L0646: 1, L0773: 1, L0768: 1, L0804: 1, L0659: 1, L0666: 1, L0665: 1,	L0659: 1, L0517: 1, L0647: 1, L0787: 1, L0666: 1, L0663: 1, S0428: 1, H0547: 1, H0519: 1, H0689: 1, H0435: 1, H0670: 1, H0539: 1, S0152: 1, L0777: 1, L0755: 1, L0757: 1, S0436: 1, S0276: 1 and H0543: 1.				111-127, 205-221, 238-254
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1171	HLYBD96	890826	1181	23 - 964	2586	Phe-30 to Cys-36.	S0428: 1, H0435: 1, S0330: 1, H0521: 1, H0576: 1, S0027: 1, L0731: 1 and H0667: 1.				207-239, 39-61, 156-182, 119-138, 84-101, 256-273, 63-79
1172	HDPPI68	891362	1182	259 - 1230	2587	Gly-34 to Leu-39, His-41 to Pro-49, Gly-62 to Arg-67, Thr-80 to Gln-88, Met-181 to Glu-191, Leu-197 to Arg-206.	AR055: 429, AR060: 304, AR033: 260, AR061: 208, AR089: 197, AR052: 148, AR104: 145, AR096: 138, AR053: 92, AR039: 64 L0794: 2, H0581: 1, H0179: 1, S0036: 1, L0789: 1, L0777: 1 and H0445: 1.				293-321, 88-109, 125-150, 12-33, 229-245, 269-285, 158-174

1173	HTTJT40	891742	1183	211 - 654	2588	Phe-61 to His-66.	1, L0759: 1, S0031: 1 and L0480: 1, AR039: 47, AR053: 32, AR052: 30, AR055: 29, AR033: 27, AR104: 27, AR089: 26, AR096: 20, AR060: 18, AR061: 12 L0771: 3, L0766: 3, L0783: 3, L0748: 3, L0749: 3, L0757: 3, L0758: 3, L0595: 3, H0031: 2, H0673: 2, L0369: 2, L0769: 2, S0374: 2, L0438: 2, H0547: 2, H0658: 2, H0696: 2, L0439: 2, L0750: 2, L0777: 2, L0596: 2, L0592: 2, H0543: 2, H0265: 1, H0713: 1, S0116: 1, H0661: 1, H0176: 1, S0444: 1, S0045: 1, H0640: 1, H0013: 1, S0010: 1, H0318: 1, H0232: 1, H0546: 1, H0065: 1, H0566: 1, H0024: 1, H0083: 1, H0266: 1, T0006: 1, H0617: 1, L0055: 1, H0165: 1, L0456: 1, H0040: 1, H0634: 1, H0551: 1, T0067: 1, H0100: 1, T0041: 1, H0560: 1, S0438: 1, S0440: 1, H0641: 1, S0144: 1,				1-27, 97- 118
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1174	HETDR50	891862	1184	650 - 120	2589	Ser-16 to Arg-23, Ser-152 to Asn-161, Thr-165 to Thr-170.	L0762: 1, L0763: 1, L0772: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L0651: 1, L0776: 1, L0636: 1, L0809: 1, L0545: 1, L0647: 1, L0793: 1, L0664: 1, H0435: 1, H0648: 1, H0436: 1, S014: 1, S0206: 1, L0742: 1, L0779: 1, L0752: 1, L0731: 1, S0260: 1, H0445: 1, S0434: 1, S0436: 1 and S0194: 1. AR055: 9, AR033: 9, AR060: 9, AR052: 7, AR104: 6, AR053: 6, AR061: 6, AR089: 6, AR096: 5, AR039: 3 H0090: 3, H0013: 2, H0046: 2, H0624: 1, H0170: 1, L0459: 1, S0222: 1, H0427: 1, S0010: 1, H0251: 1, H0596: 1, H0050: 1, H0014: 1, S0214: 1, H0412: 1, L0439: 1, L0759: 1 and S0436: 1.	20p13	192340, 234200	43-74, 132-149, 24-41, 93- 109	
1175	HSLFZ79	892016	1185	173 - 1513	2590	Arg-171 to Thr-176, Met-216 to Asn-221, Glu-229 to Lys-235, Arg-348 to Trp-353.	AR089: 7, AR096: 7, AR060: 5, AR033: 4, AR039: 4, AR055: 4, AR061: 4, AR053: 4,			1-26, 98- 119, 54- 75, 308- 324, 145-	

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1176	HDQGN46	892018	1186	265 - 1308	2591	Asp-53 to Tyr-61, Pro-105 to Ile-128, Arg-133 to Leu-140, Gln-182 to Ala-188,	AR053: 3, AR089: 1, AR033: 1, AR052: 1, AR096: 1, AR055: 1, AR060: 1, AR104: 1,			262-291, 4-27, 78- 96	

1177	HDPRH64	892038	1187	820 - 155	2592	Pro-205 to Asn-218, Gly-259 to Ala-264, Asn-290 to Ser-302, Glu-307 to Tyr-314, Tyr-317 to Lys-332. Trp-98 to Arg-105, Trp-156 to Cys-162, Glu-184 to Met-205, Gln-207 to Val-216.	AR061: 0, AR039: 0 H0521: 5, L0804: 2, H0634: 1, S0440: 1 and H0522: 1. AR096: 3, AR060: 2, AR089: 2, AR033: 1, AR052: 1, AR061: 1, AR104: 0 L0740: 15, L0758: 6, H0539: 5, H0521: 4, L0744: 4, L0754: 4, S0434: 4, L0803: 3, L0774: 3, L0666: 3, L0748: 3, L0439: 3, L0752: 3, S0002: 2, S0426: 2, L0651: 2, L0659: 2, H0170: 1, S0354: 1, S0358: 1, S0360: 1, T0008: 1, T0060: 1, H0575: 1, H0618: 1, H0309: 1, H0457: 1, S0250: 1, H0553: 1, H0100: 1, H0494: 1, S0142: 1, L0369: 1, L0638: 1, L0761: 1, L0645: 1, L0771: 1, L0363: 1, L0767: 1, L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0809: 1, L0663: 1, L0438: 1, H0689: 1, H0670: 1, S0390: 1, L0745: 1, L0746: 1, L0749: 1,	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	105-131, 48-70, 132-155, 165-181, 79-95, 1- 17
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1178	HPIAN49	892164	1188	70 - 1296	2593	Ser-52 to Arg-57, Gln-94 to Ser-99, Pro-191 to Gly-196, Thr-399 to Leu-406.	L0593: 1, H0136: 1, S0196: 1, H0423: 1 and S0456: 1. AR061: 4, AR052: 3, AR089: 2, AR060: 2, AR055: 2, AR096: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 S0028: 6, S0260: 4, S0282: 3, S0031: 3, L0005: 2, L0476: 2, S0278: 2, H0592: 2, H0318: 2, H0617: 2, S0144: 2, S0428: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0005: 1, H0331: 1, S0049: 1, S0050: 1, H0416: 1, S0036: 1, H0164: 1, H0056: 1, S0150: 1, S0216: 1, S0044: 1, S0146: 1 and S0194: 1.				284-312, 1-22, 373- 398, 65- 84, 316- 332, 354- 370, 26-42
1179	HDPVB49	892654	1189	353 - 1336	2594	Val-14 to Lys-20, Gly-24 to Gly-31, Ala-33 to Val-40, Glu-140 to Phe-156, Ala-171 to Gln-184, Glu-300 to Lys-305.	AR055: 1, AR061: 1, AR060: 1, AR104: 1, AR033: 1, AR089: 1, AR052: 0, AR096: 0, AR053: 0, AR039: 0 H0521: 16, L0748: 13, L0655: 4, H0522: 4, H0575: 3, L0775: 3, L0754: 3, S0010: 2, H0644: 2, L0776: 1	11q13			271-297, 114-138, 184-205, 224-244, 49-65, 88- 104 102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,

1180	HPICP79	892826	1190	18 - 944	2595	Asp-25 to Gly-38, Leu-167 to Ser-172, Leu-277 to Ser-291.	2, L0666: 2, L0758: 2, L0605: 2, H0255: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0438: 1, S0280: 1, H0036: 1, H0309: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, T0010: 1, H0375: 1, H0328: 1, T0006: 1, L0143: 1, H0063: 1, S0112: 1, S0142: 1, S0344: 1, L0770: 1, L0646: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0606: 1, L0659: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, H0555: 1, L0439: 1, L0750: 1, L0756: 1, L0777: 1 and S0436: 1. AR052: 6, AR055: 5, AR060: 5, AR033: 4, AR053: 4, AR089: 4, AR096: 4, AR104: 3, AR061: 3, AR039: 2 L0752: 4, L0754: 2, L0755: 2, H0265: 1, H0556: 1, T0040: 1, H0052: 1, H0544: 1, T0023: 1, H0591: 1, S0038: 1, H0100: 1, L0662: 1, L0663: 1, S0126: 1, S0152: 1, H0521: 1,	164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884				183-199, 5-21, 129- 145, 221- 237
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1181	HHEVK59	893348	1191	297 - 743	2596	Ser-76 to Thr-84, Ala-126 to Glu-132.	L0744: 1 and H0653: 1. AR039: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR096: 3, AR055: 3, AR060: 3, AR061: 2, AR104: 2 L0439: 10, L0803: 7, L0777: 7, H0052: 6, L0766: 6, S0356: 4, L0794: 4, L0751: 4, L0747: 4, L0731: 4, H0013: 3, H0551: 3, L0770: 3, L0805: 3, L0776: 3, L0665: 3, L0744: 3, L0748: 3, L0740: 3, L0754: 3, L0759: 3, S0222: 2, H0586: 2, H0156: 2, H0599: 2, H0163: 2, H0616: 2, S0002: 2, H0529: 2, L0768: 2, L0789: 2, H0144: 2, L0438: 2, H0682: 2, H0672: 2, L0749: 2, L0750: 2, L0755: 2, S0436: 2, L0591: 2, L0599: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, H0583: 1, H0657: 1, S0212: 1, S0408: 1, S0007: 1, L0717: 1, H0549: 1, H0370: 1, H0575: 1, S0010: 1, H0546: 1, H0545: 1, H0009: 1, H0050: 1, H0620:	5p15.1-p14	108962, 123000	82-110, 132-148, 12-28
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1182	HMKAK61	893374	1192	121 - 1197	2597	Gly-26 to Asp-32, Phe-53 to Leu-58, Asn-63 to Arg-86, Ser-91 to Gln-99, Gly-133 to Asn-139, Glu-144 to Arg-151, Asp-242 to His-250, Pro-319 to Asp-326, Asn-352 to Lys-358.	1, H0201: 1, S0051: 1, H0083: 1, S6028: 1, H0286: 1, H0622: 1, S0364: 1, H0135: 1, H0412: 1, H0494: 1, S0142: 1, S0210: 1, S0422: 1, L0796: 1, L3904: 1, L0646: 1, L0800: 1, L0764: 1, L0767: 1, L0804: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L5623: 1, L0787: 1, L0666: 1, S0052: 1, H0519: 1, H0365: 1, H0435: 1, H0659: 1, S0380: 1, S0037: 1, S0027: 1, S0028: 1, S0032: 1, H0445: 1, L0592: 1, S0011: 1, S0194: 1, H0543: 1 and H0423: 1.				218-235
						AR089: 36, AR039: 31, AR053: 25, AR033: 22, AR096: 20, AR052: 19, AR104: 17, AR060: 16, AR055: 14, AR061: 10 S0358: 11, S0406: 9, S0442: 6, S0440: 3, L0740: 3, S0408: 2, S0046: 2, H0421: 2, H0597: 2, S0210: 2, L0518: 2, S0374: 2, S0328: 2, S0027: 2, L0755: 2, H0445: 2, S0436: 2,					

1183	HWADM6 5	893492	1193	145 - 738	2598	L0596: 2, H0717: 1, H0716: 1, H0294: 1, S0114: 1, T0049: 1, H0341: 1, S0282: 1, H0484: 1, H0663: 1, S0420: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, H0392: 1, H0497: 1, T0039: 1, T0109: 1, H0427: 1, H0618: 1, S0010: 1, S0049: 1, H0052: 1, H0014: 1, H0266: 1, S0003: 1, T0023: 1, H0673: 1, H0494: 1, H0633: 1, S0144: 1, S0344: 1, S0422: 1, S0002: 1, L0764: 1, L0542: 1, L5623: 1, S0148: 1, H0520: 1, S0330: 1, H0696: 1, L0743: 1, L0744: 1, L0748: 1, L0750: 1, L0757: 1, L0608: 1, L0601: 1, H0667: 1, S0196: 1, H0542: 1 and H0543: 1. AR096: 5, AR053: 5, AR060: 4, AR052: 4, AR033: 3, AR055: 3, AR089: 2, AR061: 2, AR104: 2, AR039: 1 H0038: 2, S0114: 1, H0650: 1, H0341: 1, H0125: 1, H0581: 1, L0761: 1.					41-75
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1184	HLQFF81	893535	1194	168 - 530	2599	Gly-103 to Ser-114.	L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0758: 1 and H0136: 1. AR055: 10, AR052: 6, AR053: 6, AR060: 5, AR089: 5, AR033: 5, AR061: 4, AR096: 4, AR039: 4, AR104: 4 L0805: 6, L0766: 5, L0758: 5, L0803: 4, L0794: 3, L0439: 3, L0774: 2, L0776: 2, L0517: 2, L0748: 2, L0751: 2, L0777: 2, L0731: 2, L0608: 2, L0594: 2, H0170: 1, H0171: 1, H0657: 1, H0656: 1, S0442: 1, H0369: 1, H0261: 1, S0222: 1, H0574: 1, H0632: 1, T0040: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0046: 1, L0126: 1, S0051: 1, S6028: 1, L0142: 1, H0628: 1, H0090: 1, H0038: 1, H0269: 1, H0100: 1, S0438: 1, H0633: 1, L0369: 1, L0637: 1, L3905: 1, L0761: 1, L0768: 1, L0649: 1, L0804: 1, L0652: 1, L0653: 1, L0659: 1, L0809: 1, L0788: 1, L0789:				66-86, 21- 37
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1185	HDPIG80	893789	1195	207 - 791	2600	Pro-101 to Gly-109.	1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1. AR039: 12, AR104: 12, AR033: 10, AR089: 9, AR096: 8, AR055: 7, AR060: 7, AR052: 7, AR053: 7, AR061: 5 L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0028: 2, L0751: 2, L0749: 2, L0595: 2, T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0592: 1, H0587: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, H0561: 1, H0509:					146-169, 52-70, 171-187, 24-40, 114-130
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1186	HOELW53	893798	1196	1829 - 1284	2601	Trp-2 to Pro-20, Gln-160 to Asp-182.	1, S0210: 1, H0529: 1, L0763: 1, L0770: 1, L0639: 1, L3904: 1, L0646: 1, L0643: 1, L0771: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0378: 1, L0805: 1, L0527: 1, L0382: 1, L0530: 1, L0666: 1, H0547: 1, H0711: 1, H0682: 1, S0380: 1, H0521: 1, H0696: 1, S0406: 1, L0754: 1, L0777: 1, L0755: 1, H0667: 1, S0192: 1 and S0242: 1.				101-122, 62-83, 132-150, 43-60, 23- 39
							AR053: 81, AR039: 79, AR052: 74, AR096: 62, AR033: 51, AR089: 50, AR055: 49, AR104: 49, AR060: 34, AR061: 24 L0794: 14, L0809: 9, L0731: 8, L0747: 7, L0759: 7, H0556: 6, L0769: 6, L0758: 5, H0547: 4, L0749: 4, L0755: 4, H0586: 3, S0002: 3, L0770: 3, L0804: 3, L0659: 3, H0521: 3, L0439: 3, L0750: 3, L0605: 3, H0265: 2, H0341: 2, S0418: 2, S0360: 2, H0637: 2, H0580: 2, S0046: 2,				

	H0643: 2, H0618: 2, H0083: 2, H0561: 2, L0761: 2, L0767: 2, L0775: 2, H0144: 2, S0126: 2, L0740: 2, L0751: 2, L0757: 2, H0713: 1, H0656: 1, L0785: 1, S0001: 1, S0282: 1, H0661: 1, S0356: 1, S0376: 1, S0045: 1, H0619: 1, S0278: 1, S0222: 1, H0607: 1, H0253: 1, H0009: 1, H0050: 1, H0620: 1, H0071: 1, T0010: 1, H0099: 1, H0615: 1, H0428: 1, H0135: 1, H0090: 1, H0591: 1, H0551: 1, H0413: 1, H0056: 1, H0623: 1, L0564: 1, L0475: 1, H0509: 1, H0646: 1, S0344: 1, H0529: 1, L0369: 1, L0667: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0378: 1, L0805: 1, L0661: 1, L0657: 1, L0788: 1, L0663: 1, L0665: 1, S0374: 1, L0438: 1, H0682: 1, H0648: 1, S0380: 1, H0710: 1, H0478: 1, L0754: 1, L0599: 1, H0668: 1, S0026: 1, H0136: 1 and H0008: 1.
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1187	HUSID53	893863	1197	50 - 394	2602	Lys-9 to Arg-16, Gly-37 to Asn-45.	AR096: 3, AR052: 2, AR060: 2, AR104: 1, AR089: 1, AR033: 1, AR053: 1, AR061: 1, AR055: 1, AR039: 0 H0522: 2, H0052: 1, H0412: 1, L0794: 1, L0803: 1, H0651: 1, H0521: 1, L0748: 1, L0749: 1 and L0752: 1.			51-68
1188	HDPFZ30	894151	1198	110 - 880	2603		AR039: 7, AR033: 6, AR089: 5, AR053: 5, AR055: 4, AR096: 4, AR104: 4, AR052: 4, AR060: 3, AR061: 3 H0250: 5, H0580: 2, L0770: 2, L0438: 2, L0439: 2, L0754: 2, S0114: 1, H0459: 1, H0489: 1, S0278: 1, H0069: 1, H0318: 1, H0123: 1, L0471: 1, H0071: 1, H0328: 1, H0634: 1, T0067: 1, L0351: 1, H0560: 1, S0142: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0761: 1, L0662: 1, L0363: 1, L0364: 1, L0794: 1, L0805: 1, L0789: 1, L0666: 1, L0664: 1, S0126: 1, H0658: 1, H0670: 1,			193-212, 23-43, 48- 74, 83- 101, 103- 119, 164- 180

1189	HE8CW35	894153	1199	22 - 555	2604	Met-1 to Lys-19, Lys-29 to Gly-58, Ala-60 to Gly-88, Ala-90 to Asp-97.	H0521: 1, H0522: 1, S0044: 1, H0555: 1, H0576: 1, L0748: 1 and L0755: 1. AR033: 21, AR089: 6, AR060: 5, AR061: 2, AR104: 1, AR055: 1, AR096: 0, AR039: 0 H0013: 2, S0051: 2, H0333: 1, H0156: 1, S0049: 1, H0424: 1, L0455: 1, L0768: 1, L0517: 1, L0783: 1, L0809: 1 and L0666: 1.				144-166
1190	HE9SE46	894178	1200	332 - 1066	2605	Ala-29 to Asp-35, Pro-81 to Cys-89, Leu-108 to Gly-119, Glu-125 to Ala-138, Ser-140 to Asn-146, Asp-163 to Glu-174, Ser-180 to Gly-187, Lys-224 to Arg-229, Ile-231 to Tyr-238.	AR033: 2, AR061: 1, AR055: 1, AR089: 1, AR052: 1, AR060: 1, AR053: 1, AR104: 0, AR096: 0, AR039: 0 L0776: 21, L0777: 14, L0439: 12, L0752: 9, L0438: 8, L0591: 7, L0805: 5, L0771: 4, L0803: 4, L0774: 4, S0360: 3, H0013: 3, L0731: 3, L0415: 2, H0052: 2, H0024: 2, S0386: 2, L0663: 2, L0745: 2, L0756: 2, L0596: 2, L0608: 2, S0212: 1, S0222: 1, H0586: 1, H0156: 1, H0596: 1, H0050: 1, S0050: 1,				192-221

1191	HBHMH72	894186	1201	38 - 1711	2606	Ser-2 to Ala-10, Glu-12 to Leu-17, Gly-21 to Val-38.	H0373: 1, S0051: 1, S6028: 1, H0188: 1, S0003: 1, H0031: 1, S0448: 1, S0306: 1, S0440: 1, L0369: 1, L0763: 1, L0773: 1, L0381: 1, L0775: 1, L0659: 1, H0144: 1, T0068: 1, H0547: 1, H0660: 1, S0330: 1, S0406: 1, L0754: 1, L0746: 1, L0750: 1, L0779: 1, L0755: 1, S0260: 1 and H0665: 1.					219-235, 513-529, 66-82, 190-206, 41-57
							AR096: 2, AR039: 1, AR033: 1, AR089: 0, AR061: 0, AR053: 0, AR104: 0, AR060: 0 L0749: 5, H0052: 3, H0688: 3, H0090: 3, L0744: 3, L0748: 3, L0439: 3, H0341: 2, L0005: 2, L0665: 2, H0593: 2, L0743: 2, L0751: 2, L0599: 2, T0002: 1, S6024: 1, H0722: 1, S0220: 1, T0040: 1, H0013: 1, H0318: 1, H0251: 1, T0110: 1, H0375: 1, H0266: 1, H0687: 1, L0142: 1, S0112: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0772: 1, L0768: 1, L0766:					

1192	HWAHA1 1	894203	1202	90 - 614	2607			1, L5564: 1, L0776: 1, S0310: 1, L0438: 1, S0152: 1, H0521: 1, H0187: 1, H0576: 1, S0027: 1, L0740: 1, L0750: 1, L0596: 1, L0591: 1 and L0592: 1, AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1, L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.				111-133, 43-63, 72- 98, 137- 160		
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1193	IHLWAH05	894289	1203	652 - 1503	2608		AR061: 2, AR053: 2, AR096: 2, AR060: 1, AR089: 1, AR052: 1, AR033: 1, AR104: 1, AR039: 1, AR055: 0 H0586: 5, L0751: 2, H0170: 1, H0662: 1, H0638: 1, H0575: 1, H0271: 1, H0553: 1, H0477: 1, H0641: 1, S0002: 1, H0529: 1, L0641: 1, L0803: 1, L0793: 1, H0547: 1, H0689: 1 and H0543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	148-164
1194	HUJCH47	894599	1204	687 - 1283	2609		AR052: 4, AR053: 3, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR096: 0, AR089: 0, AR039: 0, AR104: 0 H0650: 1, S0420: 1 and H0599: 1.			85-101
1195	HDPCI84	894601	1205	120 - 1091	2610	Leu-90 to Gln-96, Asp-109 to Thr-114, Ile-126 to Lys-133, Val-194 to Arg-207, Asp-219 to Asp-234, Glu-296 to Tyr-304.	AR053: 3, AR060: 3, AR089: 2, AR052: 2, AR039: 2, AR055: 2, AR096: 1, AR033: 1, AR104: 1, AR061: 1 H0521: 4, L0803: 3, S0358: 2, H0489: 2, H0046: 2, S0440: 2, L0794: 2, L0666: 2, H0144: 2, S0126:			138-154

1196	HCRPU72	894605	1206	77 - 799	2611	Gly-25 to Thr-37, Asn-100 to Gly-107, Leu-147 to Asn-153, Ser-185 to Ser-192, Ser-207 to Lys-220.	2, S0342: 1, H0663: 1, S0356: 1, S0408: 1, H0013: 1, L0021: 1, H0705: 1, H0150: 1, H0266: 1, H0039: 1, H0622: 1, H0038: 1, H0551: 1, S0422: 1, L0598: 1, L0646: 1, L0766: 1, L0653: 1, L0656: 1, L0789: 1, L0532: 1, L0663: 1, H0658: 1, L0748: 1, L0777: 1, L0759: 1, S0434: 1, L0596: 1 and H0506: 1. AR039: 27, AR033: 16, AR053: 15, AR089: 14, AR052: 13, AR096: 12, AR055: 10, AR104: 9, AR060: 8, AR061: 7 H0144: 6, H0013: 2 and S0356: 1.					154-170
1197	HFTCG52	894736	1207	403 - 723	2612	Trp-4 to Asn-18, Pro-32 to Leu-39.	AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 10, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2,					48-65, 81- 97

1198	HBINP48	894737	1208	252 - 644	2613	L0757: 1, S0436: 1 and S0194: 1. AR033: 11, AR061: 11, AR089: 8, AR060: 6, AR104: 5, AR055: 4, AR096: 3, AR052: 3, AR053: 2, AR039: 1 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1,				55-73, 6- 22, 82-98, 24-40
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1199	HCQDE22	894831	1209	326 - 841	2614	Ile-128 to Gly-134, Phe-145 to Thr-150.	H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0559: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0520: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.				25-53, 88- 104, 8-24, 52-68
1200	HKGCH22	894999	1210	65 - 502	2615	Met-1 to Arg-8, Arg-57 to Arg-65, Pro-139 to Thr-146.	AR055: 10, AR060: 6, AR052: 6, AR033: 5, AR061: 4, AR053: 4, AR096: 3, AR089: 3, AR104: 2, AR039: 1 H0596: 1 and L0749: 1. AR039: 37, AR052: 24, AR053: 19, AR033: 18, AR096: 16, AR104: 16, AR089: 15, AR055: 11, AR060: 10, AR061: 9 L0794: 2, L0663: 2, L0665: 2, S0360: 1, H0042: 1, H0253: 1, H0150: 1, H0038: 1, H0633: 1, S0142:				9-27, 106- 123, 79- 95, 29-45

1201	HTPGG10	895024	1211	111 - 530	2616	Ser-29 to Ser-34.	1, H0538: 1, L0804: 1, L0657: 1, L0790: 1, L0791: 1, L0666: 1, L0664: 1, H0519: 1, H0659: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0755: 1 and L0731: 1.					1-29, 114- 137, 81- 101, 35-51
1202	HFPFB92	895129	1212	276 - 620	2617	Lys-108 to Ser-113.	AR055: 8, AR060: 7, AR061: 4, AR053: 4, AR089: 3, AR052: 3, AR033: 3, AR039: 3, AR104: 2, AR096: 1 H0622: 7, S0360: 3, L0809: 3, L0804: 2, L0774: 2, L0775: 2, L0748: 2, H0484: 1, H0014: 1, S0440: 1, L0646: 1, L0643: 1, L0374: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0803: 1 and L0788: 1. AR033: 8, AR055: 7, AR104: 5, AR039: 5, AR060: 5, AR053: 4, AR052: 4, AR089: 4, AR061: 3, AR096: 1 L0745: 12, L0803: 5, L0746: 4, L0749: 4, H0052: 3, L0776: 2, H0547: 2, L0756: 2, S0222: 1, H0431:					1-20, 24- 47, 72-99

1203	HLWBY26	895166	1213	61 - 1158	2618	Pro-21 to Pro-39.	1, S0346: 1, L0471: 1, H0051: 1, S0036: 1, L0770: 1, L0658: 1, L0666: 1, H0519: 1, H0555: 1 and L0779: 1. AR039: 42, AR053: 26, AR033: 20, AR052: 19, AR096: 19, AR055: 18, AR104: 17, AR089: 17, AR060: 12, AR061: 9 H0545: 11, H0716: 4, H0333: 4, L0794: 4, L0754: 4, H0544: 3, H0546: 3, L0743: 3, L0744: 3, L0757: 3, H0713: 2, S0212: 2, S0360: 2, H0619: 2, H0124: 2, L0771: 2, L0521: 2, S0027: 2, L0751: 2, L0777: 2, L0605: 2, H0550: 1, L0623: 1, H0013: 1, H0150: 1, H0086: 1, H0123: 1, H0288: 1, H0553: 1, H0644: 1, H0628: 1, H0181: 1, H0163: 1, H0087: 1, H0551: 1, H0100: 1, L3904: 1, L0803: 1, L0655: 1, L0656: 1, L0659: 1, L0384: 1, L0809: 1, L0565: 1, H0547: 1, H0658: 1, S0037: 1, S0028: 1, S0206: 1, L0603:	292-323
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1204	HKAHR43	895539	1214	105 - 2606	2619	Cys-132 to Gly-138, Asn-176 to Met-183, Leu-217 to Val-222, Gln-349 to Thr-354, Glu-406 to Tyr-414, Gln-416 to Tyr-424, Arg-457 to Lys-466, Gln-545 to Glu-552, Gln-576 to Gln-586, His-669 to Val-674, Lys-801 to Thr-821.	1 and H0665: 1, AR096: 9, AR061: 7, AR052: 6, AR053: 5, AR089: 5, AR039: 4, AR033: 3, AR104: 3, AR060: 3, AR055: 3, L0771: 6, H0494: 4, S0358: 3, L0803: 3, L0518: 2, L0666: 2, S0354: 1, H0239: 1, H0553: 1, H0181: 1, H0617: 1, H0488: 1, L0648: 1, L0662: 1, L0774: 1, L0659: 1, L0665: 1, H0658: 1, H0648: 1, S0152: 1, S0404: 1 and S0434: 1.			145-176, 422-454, 471-506, 101-131, 779-801, 2-23, 246- 262
1205	HLDCE43	895550	1215	145 - 627	2620		AR033: 28, AR053: 27, AR089: 23, AR052: 20, AR039: 20, AR055: 14, AR060: 13, AR061: 12, AR096: 10, AR104: 8 L0751: 7, L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0545: 2, H0594: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0380: 2, S0028: 2, L0754: 2, L0749: 2, L0777: 2, L0595: 2, H0556: 1,			98-115, 132-149, 18-34

1206	HFXKW18	895626	1216	528 - 2336	2621	Ala-39 to Arg-46, Lys-76 to Ile-81, Asn-143 to Trp-149, Asp-154 to Lys-173.	AR061: 3, AR096: 2, AR052: 1, AR089: 1, AR053: 1, AR060: 1, AR039: 1, AR055: 1, AR104: 0, AR033: 0 H0250: 3, S0031: 3, H0271: 2, S0260: 2, S0001: 1, S0282: 1, H0617: 1, L0367: 1, S0053: 1, S0390: 1, L0698: 1 and H0352: 1.			6-35, 281- 309, 393- 410, 573- 589, 84- 100, 432- 448, 542- 558
1207	HSKCP67	895644	1217	299 - 814	2622	Pro-4 to Gln-10, Pro-22 to Arg-28, Glu-63 to Arg-86.	AR055: 8, AR052: 6, AR060: 5, AR033: 4, AR061: 4, AR089: 3, AR096: 3, AR053: 3, AR039: 2, AR104: 2 H0333: 2, L0758: 2, H0619: 1, H0618: 1, H0505: 1, S0051: 1, H0271: 1, S0142: 1, S0027: 1 and L0742: 1.			138-163, 95-118
1208	HGOJ26	895700	1218	652 - 332	2623	Met-1 to Arg-6.	AR055: 11, AR033: 7, AR060: 6, AR052: 6, AR089: 6, AR061: 5, AR096: 4, AR053: 4, AR104: 2, AR039: 2 H0618: 11, L0743: 8, L0748: 6, L0754: 6, L0731: 6, H0545: 5, H0052: 4, H0546: 4, L0648: 4, L0662:			83-107, 53-69

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1209	HWHGQ4 6	895880	1219	514 - 1251	2624	Thr-60 to Ala-65, Leu-94 to Glu-99, Cys-182 to Trp-188.	1, L0644: 1, L0375: 1, L0378: 1, L0776: 1, L0493: 1, L0656: 1, L0788: 1, L0666: 1, H0593: 1, H0660: 1, S0332: 1, S0406: 1, H0555: 1, L0610: 1, S3014: 1, L0744: 1, L0751: 1, L0756: 1, L0779: 1, L0752: 1, L0757: 1, S0434: 1, L0588: 1, L0603: 1 and S0456: 1.				27-61, 1- 27, 159- 181, 117- 142, 68- 87, 189- 205
							AR053: 3, AR052: 3, AR061: 2, AR089: 2, AR055: 2, AR033: 2, AR096: 1, AR060: 1, AR104: 1 L0748: 14, L0740: 9, L0755: 9, L0771: 7, L0779: 6, L0662: 5, H0586: 4, L0666: 4, L0439: 4, S0436: 4, H0624: 3, H0615: 3, L0770: 3, L0659: 3, L0809: 3, H0547: 3, S0152: 3, H0521: 3, L0747: 3, H0171: 2, S0045: 2, H0635: 2, H0575: 2, H0546: 2, H0169: 2, H0494: 2, L0763: 2, L0769: 2, L0650: 2, L0653: 2, L0517: 2, H0520: 2, H0593: 2, H0435: 2, L0749:				

1210	HNTOA59	895940	1220	289 - 1455	2625	Ser-55 to Gln-67, Ser-95 to Arg-100,	2, L0752: 2, L0731: 2, L0759: 2, L0605: 2, H0170: 1, H0685: 1, L0459: 1, H0295: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0408: 1, H0580: 1, H0729: 1, S0046: 1, S0300: 1, H0587: 1, H0042: 1, H0251: 1, H0545: 1, H0569: 1, H0024: 1, H0083: 1, H0288: 1, H0328: 1, H0428: 1, H0424: 1, H0644: 1, H0165: 1, H0135: 1, H0087: 1, H0100: 1, L0351: 1, H0625: 1, S0002: 1, L0646: 1, L0764: 1, L0768: 1, L0775: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0606: 1, L0657: 1, L0519: 1, L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0670: 1, H0539: 1, H0522: 1, H0696: 1, S0406: 1, H0436: 1, H0626: 1, S0027: 1, L0743: 1, L0751: 1, L0757: 1, L0592: 1, L0593: 1, H0542: 1, H0543: 1, H0423: 1 and S0412: 1.	AR033: 3, AR096: 2, AR052: 2, AR089: 2,			209-237
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						Glu-142 to Ser-147, Pro-189 to Lys-200, Lys-235 to Lys-240, Glu-281 to Thr-294, Ile-299 to Ser-306, Ser-309 to Asn-317, Pro-324 to Phe-338, Ser-340 to Gly-352, Cys-355 to Leu-360, Val-374 to Ala-381.	AR053: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 1, AR039: 0 L0439: 19, L0747: 6, L0804: 4, L0438: 4, L0766: 3, H0521: 3, S0212: 2, L0794: 2, L0793: 2, H0144: 2, L0752: 2, L0594: 2, H0265: 1, H0662: 1, S0354: 1, S0360: 1, H0441: 1, H0438: 1, T0039: 1, H0013: 1, H0156: 1, S0010: 1, L0471: 1, H0083: 1, H0266: 1, H0032: 1, H0038: 1, L0351: 1, H0494: 1, H0646: 1, L0598: 1, H0529: 1, L0763: 1, L0769: 1, L0803: 1, L0775: 1, S0374: 1, L0352: 1, H0520: 1, H0519: 1, S0350: 1, L0756: 1, L0779: 1, L0592: 1, H0665: 1 and S0424: 1.				
1211	HVVAL93	895960	1221	662 - 1435	2626			AR055: 43, AR089: 17, AR033: 17, AR060: 16, AR052: 14, AR053: 12, AR039: 11, AR096: 10, AR061: 8, AR104: 7 L0754: 2, S0040: 1 and H0672: 1			108-138

1212	HAMGN09	895968	1222	226 - 1077	2627	Phe-84 to Trp-90, Lys-182 to Ile-187, Ser-202 to Leu-214, Pro-232 to Ser-240, Phe-260 to Met-273.	AR052: 9, AR053: 8, AR096: 7, AR089: 5, AR104: 4, AR033: 4, AR060: 4, AR039: 4, AR055: 2, AR061: 2 H0032: 7, L0749: 6, L0755: 5, L0804: 4, L0775: 4, L0748: 4, L0803: 3, L0731: 3, S0408: 2, S0222: 2, H0266: 2, L0805: 2, S0152: 2, S3014: 2, L0747: 2, H0556: 1, H0657: 1, H0341: 1, H0638: 1, H0125: 1, S0418: 1, H0722: 1, H0728: 1, H0574: 1, H0486: 1, H0318: 1, H0421: 1, H0530: 1, H0083: 1, H0375: 1, S6028: 1, H0267: 1, H0615: 1, H0165: 1, H0598: 1, H0591: 1, H0038: 1, H0634: 1, H0413: 1, H0560: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L0773: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0809: 1, L5623: 1, L0664: 1, H0144: 1, H0518: 1, H0522: 1, L0756: 1, L0758: 1, L0759: 1, L0588: 1, H0667: 1 and H0543: 1.				150-167
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1213	HHEDS40	896083	1223	161 - 1567	2628	Glu-19 to Lys-30, Ser-130 to Lys-136, Asp-156 to Cys-164, Asn-166 to Lys-172, Glu-233 to Ser-243, Leu-311 to Glu-322, Asp-331 to Thr-352, Thr-363 to Ala-376, Pro-385 to Pro-390.	AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR039: 1, AR104: 1, AR055: 1, AR061: 1, AR052: 1 L0766: 8, L0769: 4, L0794: 4, L0803: 4, L0748: 3, L0749: 3, H0266: 2, L0764: 2, H0144: 2, L0777: 2, L0731: 2, H0445: 2, L0596: 2, H0543: 2, H0556: 1, S0116: 1, H0638: 1, H0580: 1, S0045: 1, T0039: 1, S6028: 1, H0267: 1, H0622: 1, L0483: 1, S0036: 1, H0135: 1, H0561: 1, L0761: 1, L0806: 1, L0805: 1, L0657: 1, L0666: 1, S0053: 1, S0330: 1, H0539: 1, S3014: 1, L0779: 1, L0757: 1, L0593: 1, H0542: 1 and S0424: 1.			431-449, 94-110
1214	HBMFBF28	896325	1224	185 - 1021	2629	Leu-6 to Glu-11, Thr-13 to Pro-20, Glu-86 to Ala-92, Gln-95 to Leu-104, Glu-110 to Lys-116, Gln-173 to Phe-178, Gln-242 to Glu-261, Arg-267 to Tyr-279.	AR055: 406, AR060: 202, AR033: 149, AR039: 134, AR089: 128, AR061: 101, AR096: 99, AR104: 79, AR053: 73, AR052: 0 H0521: 9, L0508: 4, S0410: 3, S0474: 3, H0413: 3, L0766: 3, L0608: 3,			66-85, 26- 42, 212- 228

1215	HJPAZ12	896370	1225	242 - 1048	2630	Leu-35 to Arg-41, Pro-46 to Leu-58, Phe-62 to Asp-73, Lys-101 to Phe-117, Tyr-134 to Trp-140.	H0543: 3, H0637: 2, H0580: 2, H0492: 2, H0635: 2, L0483: 2, L0498: 2, L0509: 2, L0602: 2, S0206: 2, L0747: 2, L0588: 2, L0589: 2, H0224: 1, H0346: 1, S0360: 1, S0408: 1, H0728: 1, S0046: 1, S0476: 1, H0411: 1, H0497: 1, H0632: 1, H0486: 1, H0253: 1, H0581: 1, H0421: 1, T0115: 1, H0271: 1, T0041: 1, H0641: 1, H0529: 1, L0451: 1, L0369: 1, L0794: 1, L0657: 1, L0493: 1, L0515: 1, L0793: 1, L0663: 1, H0518: 1, H0436: 1, S3012: 1, L0779: 1, L0758: 1, H0444: 1, S0308: 1, S0436: 1, L0590: 1, L0599: 1 and H0542: 1.				186-208, 81-97, 11- 27, 168- 184
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1216	HISCV39	896442	1226	2720 - 723	2631		1, S3014: 1, L0746: 1, L0786: 1, L0731: 1, L0759: 1, H0445: 1, S0434: 1, L0592: 1, H0542: 1 and L0600: 1.	16			611-637, 25-44, 126-142
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1217	HPTVU91	896517	1227	864 - 145	2632	Asp-144 to Asp-151, Pro-153 to Arg-158, Pro-196 to Gly-201, Pro-215 to Trp-239.	1, L0653: 1, L0776: 1, L0379: 1, L0659: 1, L0636: 1, L0783: 1, L0789: 1, L0666: 1, L0665: 1, S0374: 1, H0723: 1, H0520: 1, H0435: 1, H0659: 1, H0672: 1, S0330: 1, S0350: 1, H0521: 1, H0696: 1, H0704: 1, S0044: 1, H0555: 1, S0392: 1, H0478: 1, S3014: 1, L0741: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0779: 1, L0755: 1, L0592: 1, S0242: 1, S0196: 1, H0506: 1 and L0600: 1, AR055: 11, AR060: 6, AR061: 6, AR089: 6, AR033: 5, AR053: 4, AR039: 4, AR052: 4, AR104: 3, AR096: 3 S0442: 3, S0360: 2, H0424: 2, H0661: 1, S0376: 1, S0444: 1, H0489: 1, L0021: 1, H0039: 1, H0617: 1, S0440: 1, S0150: 1, H0647: 1, H0652: 1, L0772: 1, L0374: 1, L0662: 1, L0388: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, L0665: 1, H0658: 1, H0648:					88-123, 17-40, 61- 82, 163- 179, 84- 100
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1218	HSLJD02	896743	1228	850 - 53	2633	Leu-32 to Gln-37, Phe-141 to Gly-146, Gln-261 to Ala-266.	1 and L0747: 1. AR039: 1, AR089: 1, AR096: 1, AR055: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR104: 0 S0390: 1				235-260, 9-32, 146- 168, 77- 96, 175- 193, 116- 133, 206- 222
1219	HNHOF94	896802	1229	769 - 284	2634	Pro-87 to Ser-95.	AR096: 16, AR052: 15, AR089: 13, AR033: 8, AR060: 8, AR053: 8, AR104: 8, AR055: 5, AR061: 5, AR039: 5 S0216: 1				110-126, 50-66
1220	H2CBM85	896826	1230	393 - 860	2635	Ala-85 to Val-92.	AR052: 64, AR096: 42, AR053: 40, AR089: 29, AR060: 23, AR039: 23, AR033: 17, AR104: 13, AR055: 12, AR061: 11 S0028: 19, S0031: 9, S0052: 8, S0050: 7, L0105: 5, S0282: 4, H0381: 3, S0045: 3, S0278: 3, H0271: 3, H0617: 3, S0428: 3, S0001: 2, S0049: 2, H0196: 2, H0179: 2, S0038: 2, S0144: 2, S0044: 2, S0390: 2, S0206: 2, S0260: 2, L0591: 2, L0362: 2, L0361:				64-81

1221	HSLJC45	896843	1231	158 - 760	2636	Thr-3 to Gly-43, Thr-55 to Gln-61, Pro-71 to Ala-77, Pro-112 to Val-121, Thr-183 to His-188, Trp-195 to Thr-201.	2, L0603: 2, S0035: 1, S0046: 1, H0333: 1, H0253: 1, H0318: 1, T0110: 1, H0046: 1, H0266: 1, H0416: 1, H0031: 1, H0180: 1, H0181: 1, H0383: 1, H0169: 1, S0036: 1, H0135: 1, H0163: 1, H0634: 1, H0164: 1, L0374: 1, L0379: 1, S0126: 1, H0658: 1, S0152: 1, S0037: 1 and S3014: 1.	3p24.2	154705, 227646, 601154	147-164	
1222	HETJW92	896874	1232	109 - 432	2637		AR096: 37, AR060: 15, AR055: 12, AR089: 11, AR039: 11, AR033: 9, AR052: 6, AR061: 5, AR053: 5, AR104: 5 L0438: 3, H0018: 1, H0522: 1, S0390: 1 and L0439: 1. AR055: 15, AR060: 13, AR089: 11, AR061: 9, AR033: 8, AR096: 7, AR052: 6, AR053: 5, AR104: 4, AR039: 3 H0046: 9, S0152: 3, L0439: 3, L0751: 3, H0052: 2, H0646: 2, L0438: 2, L0608: 2, S0376: 1, S0360: 1, H0393: 1, H0575: 1,			1-25, 38- 57, 85-101	

1223	HTHEME02	896919	1233	97 - 828	2638	Arg-33 to Gly-39, Arg-76 to Gly-99, Lys-112 to Val-118, Tyr-135 to Lys-148, Arg-152 to Arg-157.	S0346: 1, T0006: 1, H0598: 1, H0040: 1, L0800: 1, L0382: 1, L0788: 1, S0374: 1, H0689: 1, H0690: 1, H0539: 1, S0037: 1 and L0759: 1. AR060: 353, AR104: 303, AR055: 289, AR039: 258, AR033: 219, AR061: 208, AR089: 160, AR052: 140, AR053: 111, AR096: 75 L0748: 13, H0052: 7, S0222: 6, H0616: 6, H0013: 5, H0144: 5, L0005: 4, S0010: 4, H0421: 4, H0090: 4, H0038: 4, H0040: 4, L0758: 4, H0486: 3, H0622: 3, L0747: 3, S0040: 2, H0662: 2, H0619: 2, H0156: 2, H0318: 2, H0328: 2, H0031: 2, H0163: 2, L0648: 2, L0649: 2, L0805: 2, L0666: 2, L0665: 2, H0690: 2, S0406: 2, L0777: 2, S0260: 2, S6024: 1, S0114: 1, S0212: 1, S0110: 1, S0001: 1, S0282: 1, S0442: 1, S0376: 1, S0360: 1, S0300: 1, H0549: 1, H0431: 1, H0438: 1, H0331: 1,					40-61, 2- 18
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1224	HCYAC03	896987	1234	1604 - 1005	2639	Cys-15 to Gly-36, Tyr-55 to Ser-66, Pro-74 to Ala-84, Gly-100 to Asp-108, Leu-177 to His-198.	H0575: 1, H0036: 1, H0581: 1, L0024: 1, H0263: 1, H0050: 1, L0471: 1, H0399: 1, H0188: 1, H0687: 1, S0003: 1, H0688: 1, H0428: 1, H0039: 1, H0092: 1, H0033: 1, H0628: 1, L0455: 1, S0036: 1, H0135: 1, H0591: 1, H0551: 1, H0264: 1, H0488: 1, H0059: 1, T0069: 1, T0041: 1, S0015: 1, S0016: 1, S0440: 1, H0641: 1, S0344: 1, S0002: 1, H0529: 1, L0763: 1, L0373: 1, L0662: 1, L0766: 1, L0659: 1, L0519: 1, L0530: 1, L0438: 1, H0519: 1, H0593: 1, H0689: 1, H0684: 1, H0672: 1, H0539: 1, S0392: 1, L0439: 1, L0750: 1, S0434: 1, L0596: 1, L0592: 1, L0362: 1, L0366: 1, S0194: 1, S0276: 1, H0543: 1, H0422: 1, H0506: 1 and H0352: 1.	AR033: 50, AR104: 31, AR089: 27, AR060: 21, AR096: 19, AR055: 18, AR053: 13, AR052: 13, AR061: 12, AR039: 9			114-140, 147-163, 1-17
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1225	HTTBH18	897055	1235	981 - 1325	2640	Thr-3 to Phe-14.	1, L0635: 1, L0517: 1, L0647: 1, L0788: 1, L0666: 1, L0665: 1, H0144: 1, S0374: 1, H0659: 1, H0672: 1, S0378: 1, H0696: 1, H0704: 1, H0436: 1, S0392: 1, H0478: 1, L0742: 1, L0743: 1, L0749: 1, L0731: 1, S0434: 1, L0601: 1, L0366: 1, S0026: 1, S0192: 1, H0542: 1, H0543: 1 and H0422: 1.				
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1226	HOGBM94	897226	1236	1660 - 296	2641	Gly-46 to Lys-52, Asp-242 to Ser-247, Arg-272 to Ala-281, Arg-371 to Pro-377, Ala-430 to Asp-435, Gln-441 to Thr-446.	AR055: 5, AR039: 5, AR096: 4, AR033: 4, AR104: 4, AR052: 4, AR060: 4, AR053: 4, AR089: 4, AR061: 3 L0748: 8, L0439: 5, S0278: 4, L0770: 3, L0803: 3, L0665: 3, L0731: 3, S0040: 2, S0418: 2, H0250: 2, H0581: 2, H0622: 2, H0264: 2, H0056: 2, S0426:				144-168, 247-270, 385-412, 319-339, 208-225, 300-317, 282-299, 25-41, 114-130, 55-71, 91- 107

1227	HSLAS08	897262	1237	91 - 975	2642	Leu-79 to Thr-89, Pro-92 to Leu-99	2, L0769: 2, L0662: 2, L0794: 2, L0659: 2, L0666: 2, L0663: 2, H0521: 2, H0522: 2, L0751: 2, L0747: 2, L0749: 2, L0758: 2, L0759: 2, L0593: 2, H0543: 2, H0265: 1, H0556: 1, H0657: 1, H0341: 1, S0110: 1, S0282: 1, H0484: 1, H0483: 1, H0255: 1, H0663: 1, S0007: 1, L0717: 1, H0261: 1, H0370: 1, H0586: 1, H0587: 1, H0559: 1, L0021: 1, H0575: 1, H0253: 1, H0545: 1, H0123: 1, H0012: 1, H0024: 1, H0083: 1, H0688: 1, H0617: 1, H0135: 1, H0488: 1, H0412: 1, H0413: 1, H0494: 1, S0150: 1, H0641: 1, H0652: 1, H0538: 1, L0667: 1, L0764: 1, L0766: 1, L0653: 1, H0519: 1, S0126: 1, H0435: 1, H0518: 1, S0190: 1, H0555: 1, S3012: 1, S0037: 1, L0744: 1, L0756: 1, L0779: 1, L0757: 1, L0592: 1 and H0668: 1.	AR089: 5, AR039: 3, AR096: 3, AR060: 3.	108725, 120700.	1-22, 261- 285
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1228	HTLJA52	897328	1238	4 - 585	2643		AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 3, AR096: 3, AR053: 3, AR052: 3, AR104: 2, AR039: 0 L0758: 8, L0794: 5, L0779: 5, H0616: 3, H0618: 2, L0777: 2, H0038: 1 and L0768: 1.			43-59, 141-157
1229	HISCG60	897517	1239	1683 - 1102	2644		AR039: 28, AR089: 20, AR096: 17, AR104: 14, AR053: 12, AR033: 12, AR060: 11, AR052: 11, AR055: 6, AR061: 4 H0519: 9, H0547: 8, H0521: 7, S0126: 6, H0619: 5, H0457: 5, H0264: 5, H0529: 5, L0794: 5, H0520: 5, H0539: 5, H0543: 5, H0677: 5, S0007: 4, L0471: 4, H0083: 4, H0266: 4, L0455: 4, H0135: 4, H0090: 4, T0041: 4, T0042: 4, L0718: 4, H0341: 3, S0420: 3, S0046: 3, H0052: 3, H0050: 3, H0494: 3, H0561: 3, S0150: 3, H0641: 3, H0660: 3, S0027: 3, L0779: 3, H0624: 2, H0556: 2, S0040: 2, T0049: 2, S0134:			154-179, 122-147, 38-60, 79- 99, 11-27, 102-118

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1230	HEBFI34	897852	1240	1140 - 424	2645	Gly-88 to Arg-93, Ser-133 to Tyr-138, Phe-189 to Gly-195, Thr-211 to Gly-227.	1, L0654: 1, L0664: 1, H0698: 1, H0689: 1, H0435: 1, H0658: 1, H0672: 1, S0330: 1, S0152: 1, L0356: 1, H0631: 1, S0037: 1, L0439: 1, L0745: 1, L0747: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0595: 1, S0026: 1, H0136: 1, H0423: 1 and H0422: 1. AR089: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 2, AR055: 1, AR096: 1, AR052: 0, AR039: 0 L0748: 10, L0759: 6, S0436: 4, S0007: 3, S0126: 3, H0659: 3, S0028: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0755: 3, S0376: 2, H0250: 2, H0046: 2, H0673: 2, H0038: 2, H0412: 2, H0494: 2, H0529: 2, L0770: 2, L0768: 2, L0766: 2, L0805: 2, S0152: 2, L0745: 2, L0750: 2, L0779: 2, L0757: 2, T0002: 1, H0583: 1, S0116: 1, H0341: 1, S0358: 1, S0444: 1, S0360: 1, H0580: 1,					93-132, 167-185, 93-112, 60-77, 148-164, 22-38
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1231	HKAIEK20	897885	1241	958 - 353	2646	Pro-4 to Pro-9, Val-81 to Phe-87.	S0045: 1, S0476: 1, H0261: 1, H0642: 1, H0574: 1, H0485: 1, H0486: 1, T0040: 1, H0599: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0150: 1, H0083: 1, H0266: 1, H0687: 1, S0214: 1, H0553: 1, H0372: 1, H0616: 1, H0100: 1, S0112: 1, S0438: 1, S0150: 1, H0641: 1, S0142: 1, L0764: 1, L0767: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0791: 1, L0666: 1, L0665: 1, S0428: 1, L0438: 1, H0689: 1, H0435: 1, H0660: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, S0027: 1, L0753: 1, L0731: 1, L0758: 1, S0434: 1, S0276: 1, S0196: 1 and H0423: 1. AR089: 6, AR055: 6, AR033: 5, AR053: 4, AR052: 4, AR096: 3, AR061: 3, AR039: 1, AR060: 1, AR104: 0 S0422: 19, S0126: 11, L0769: 10, L0750: 10, H0046: 9, H0124: 9, S0206:					95-120, 43-59
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1232	HDPVZ07	897891	1242	1207 - 287	2647	Ser-14 to Lys-21, Tyr-31 to Ser-39, Arg-121 to Gly-129, His-142 to Pro-153, Glu-155 to Ala-160, Arg-165 to Ala-170, Met-173 to Cys-180, Gln-187 to Ile-196, Ser-254 to Glu-264, Val-297 to Gly-302.	AR039: 8, AR033: 6, AR053: 5, AR089: 4, AR096: 4, AR104: 4, AR055: 4, AR060: 4, AR052: 3, AR061: 3, H0052: 3, H0521: 3, S0360: 1, H0619: 1, S0280: 1, H0046: 1, S0362: 1, H0119: 1, S0053: 1, H0478: 1 and S0011: 1.	5q23-q31	121050, 126150, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692,	98-114	1, L0773: 1, L0522: 1, L0803: 1, L0650: 1, L0774: 1, L0375: 1, L0376: 1, L0523: 1, L0654: 1, L0655: 1, L0606: 1, L0657: 1, L0384: 1, L0788: 1, L0792: 1, L0532: 1, L0664: 1, S0374: 1, H0659: 1, H0660: 1, H0648: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, H0696: 1, H0478: 1, H0732: 1, S0037: 1, L0756: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, L0480: 1, H0136: 1, S0192: 1, S0242: 1, S0194: 1, S0196: 1 and H0543: 1.
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1233	HE8PB56	897898	1243	1893 - 1315	2648	Gln-37 to Gln-43, Cys-51 to Cys-65.	AR096: 3, AR061: 2, AR053: 1, AR089: 1, AR055: 1, AR033: 1, AR060: 1, AR052: 0, AR039: 0, AR104: 0 S0440: 28, S0476: 19, H0494: 19, S0372: 16, L0754: 16, S0132: 12, H0046: 12, L0666: 12, H0586: 11, S0330: 11, S0328: 10, S0360: 9, H0587: 9, L0747: 9, H0622: 8, S0436: 8, H0648: 7, S0356: 6, S0003: 6, H0674: 6, L0806: 5, L0362: 5, L0601: 5, S0358: 4, S0214: 4, H0039: 4, H0031: 4, H0264: 4, L0763: 4, L0662: 4, L0776: 4, L0777: 4, L0752: 4, S0430: 3, S0376: 3, H0370: 3, H0600: 3, H0592: 3, H0644: 3, H0551: 3, H0560: 3, L0637: 3, L0646: 3, L0649: 3, L0653:	601692, 601692, 601692, 602089, 602121, 602460	71-111, 10-33, 100-132, 151-176
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				3, L0659: 3, L0663: 3, H0696: 3, S3014: 3, S0434: 3, L0591: 3, H0662: 2, S0410: 2, H0393: 2, H0596: 2, H0597: 2, L0483: 2, H0553: 2, H0032: 2, H0169: 2, H0598: 2, H0090: 2, H0379: 2, L0372: 2, L0376: 2, L0517: 2, L0783: 2, L0809: 2, L0665: 2, H0547: 2, H0658: 2, H0670: 2, S0380: 2, S0152: 2, S0406: 2, S0027: 2, L0744: 2, L0779: 2, L0755: 2, L0599: 2, S0196: 2, H0170: 1, H0171: 1, H0556: 1, T0002: 1, S0134: 1, H0483: 1, H0663: 1, L0005: 1, S0442: 1, S0354: 1, S0444: 1, S0408: 1, T0008: 1, L0717: 1, H0411: 1, H0549: 1, T0039: 1, H0013: 1, L0021: 1, H0349: 1, S0010: 1, S0049: 1, H0251: 1, H0204: 1, L0738: 1, H0012: 1, H0015: 1, H0373: 1, H0355: 1, H0510: 1, H0615: 1, H0688: 1, L0142: 1, L0143: 1, H0166: 1, H0673: 1, H0591: 1, H0038: 1, H0040:
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1234	HCFBF02	897932	1244	2128 - 2463	2649	Thr-12 to Gly-21.	1, H0634: 1, T0067: 1, H0380: 1, H0272: 1, H0487: 1, H0412: 1, H0623: 1, H0059: 1, H0100: 1, S0352: 1, S0382: 1, S0448: 1, S0306: 1, S0438: 1, L0640: 1, L0770: 1, L0761: 1, L0764: 1, L0771: 1, L0648: 1, L0794: 1, L0549: 1, L5564: 1, L0551: 1, L0805: 1, L0518: 1, L0382: 1, L0519: 1, L0789: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0711: 1, H0435: 1, H0659: 1, H0666: 1, S0350: 1, S0044: 1, H0555: 1, S0322: 1, L0748: 1, L0740: 1, L0745: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, S0242: 1 and S0456: 1. AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR061: 0, AR053: 0, AR052: 0, AR055: 0 L0752: 10, L0471: 9, L0731: 9, H0422: 9, H0556: 6, L0748: 6, H0040: 5, L0641: 5, L0766: 5, L0439: 5, L0749: 5, H0543: 5,						94-111, 23-39
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1235	HE8TB14	897937	1245	2032 - 1475	2650	Lys-54 to Arg-61, Pro-108 to Ala-119, Ser-136 to Gln-156, Gly-166 to Ser-172.	S0438: 1, H0646: 1, S0208: 1, L0796: 1, L0667: 1, L0644: 1, L0764: 1, L0768: 1, L0654: 1, L0655: 1, L0606: 1, L0634: 1, L0659: 1, L0809: 1, L0367: 1, L0791: 1, L0793: 1, L0666: 1, L0438: 1, H0520: 1, H0519: 1, H0689: 1, H0684: 1, H0666: 1, H0672: 1, S0378: 1, H0631: 1, L0741: 1, L0756: 1, S0260: 1, L0599: 1, L0595: 1, S0242: 1 and H0542: 1.					70-89, 14- 30
							AR055: 9, AR052: 6, AR061: 6, AR060: 5, AR096: 5, AR053: 4, AR033: 4, AR104: 4, AR089: 3, AR039: 1 H0013: 8, L0805: 5, H0716: 4, S0010: 4, H0052: 4, H0144: 4, H0615: 3, H0547: 3, L0747: 3, H0645: 2, S0049: 2, H0009: 2, L0769: 2, L0776: 2, L0665: 2, H0519: 2, H0658: 2, H0660: 2, L0602: 2, H0555: 2, L0439: 2, L0750: 2, L0597: 2, H0136: 2, H0423: 2, H0624: 1, H0171: 1,					

1236	HHEFT15	897968	1246	141 - 1040	2651	Pro-19 to Gly-27, Cys-52 to Gly-64, Lys-77 to Lys-85, Pro-104 to Leu-117, Glu-119 to Tyr-127, Glu-153 to Gly-162,	H0717: 1, S0402: 1, H0294: 1, S0114: 1, S0116: 1, H0341: 1, S0212: 1, H0483: 1, H0664: 1, H0662: 1, S0360: 1, S0046: 1, H0619: 1, H0411: 1, H0369: 1, S0222: 1, H0438: 1, H0486: 1, H0156: 1, H0318: 1, H0581: 1, H0046: 1, H0457: 1, H0564: 1, H0051: 1, H0201: 1, H0416: 1, H0688: 1, H0644: 1, L0456: 1, H0135: 1, H0616: 1, H0059: 1, H0561: 1, S0344: 1, L0763: 1, L0646: 1, L0521: 1, L0766: 1, L0649: 1, L0789: 1, L0663: 1, L0438: 1, H0435: 1, H0539: 1, S0406: 1, H0436: 1, L0612: 1, L0748: 1, L0751: 1, L0779: 1, L0731: 1, L0758: 1, L0759: 1, L0686: 1, S0436: 1, L0595: 1 and S0194: 1.	AR039: 5, AR053: 5, AR052: 5, AR033: 5, AR089: 4, AR055: 4, AR096: 3, AR060: 3, AR104: 2, AR061: 2, L0438: 9, L0439: 8,			84-101
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1237	HHEQF50	897970	1247	533 - 66	2652	Ser-205 to Gly-216, Ser-223 to Gly-230.	L0748: 6, H0556: 3, S0007: 3, L0777: 3, H0265: 2, S0360: 2, H0592: 2, S0010: 2, H0041: 2, H0081: 2, L0794: 2, L0803: 2, L0666: 2, S0328: 2, L0596: 2, L0608: 2, H0224: 1, H0225: 1, S0040: 1, S0114: 1, T0049: 1, H0255: 1, H0411: 1, H0549: 1, S0222: 1, H0586: 1, H0618: 1, H0581: 1, H0052: 1, H0309: 1, L0471: 1, H0620: 1, H0373: 1, H0286: 1, T0006: 1, H0674: 1, H0135: 1, H0646: 1, L0770: 1, L0800: 1, L0764: 1, L0662: 1, L0363: 1, L0766: 1, L0804: 1, L0789: 1, L0663: 1, L0665: 1, H0547: 1, H0684: 1, S0028: 1, L0749: 1, L0756: 1, L0779: 1, H0542: 1 and S0424: 1.					125-141, 22-38
						Leu-52 to Ser-57, His-70 to Lys-77, Pro-100 to Lys-106, Lys-143 to Ala-148.	AR052: 2, AR053: 1, AR096: 1, AR055: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR033: 0 H0542: 39, H0592: 8, H0543: 8, H0545: 7, S0422:					

1238	HOSAY56	897979	1248	1058 - 348	2653	Lys-13 to Ser-18, Ala-28 to Pro-35.	5, H0521: 4, H0555: 4, H0544: 3, H0522: 3, H0586: 2, H0581: 2, H0510: 2, H0583: 1, H0580: 1, T0010: 1, H0553: 1, H0561: 1, H0529: 1 and H0684: 1. AR096: 5, AR052: 5, AR061: 4, AR089: 4, AR055: 3, AR060: 3, AR053: 3, AR033: 3, AR104: 3, AR039: 3 H0521: 9, H0522: 4, H0580: 2, S0214: 2, L0750: 2, H0486: 1, L0021: 1, H0251: 1, H0309: 1, H0263: 1, H0271: 1, S0003: 1, H0068: 1, H0090: 1, S0144: 1, L0803: 1, L0804: 1, L0749: 1, L0777: 1 and L0759: 1.	39-72	
1239	HOGEA82	898097	1249	1428 - 340	2654		AR039: 8, AR033: 8, AR089: 6, AR053: 6, AR055: 6, AR060: 5, AR052: 5, AR096: 4, AR061: 3, AR104: 2 T0008: 1, H0052: 1, H0435: 1, H0672: 1 and H0696: 1.	59-75, 163-179	
1240	HHFJV91	898152	1250	1250 -	2655	Val-6 to Phe-30,	AR089: 11, AR096: 8,	120-142	

1241	HMACM2 9	898193	1251	981 - 292	1693	Leu-33 to Pro-42, Leu-75 to Glu-80, His-99 to Ala-104.	AR060: 8, AR053: 8, AR052: 7, AR055: 7, AR033: 6, AR039: 4, AR104: 4, AR061: 4 H0222: 1, H0341: 1, H0662: 1, H0619: 1, H0370: 1, S0003: 1, H0673: 1, H0591: 1, H0529: 1, L0771: 1, H0543: 1 and H0423: 1.				166-197, 2-18
1242	HDPLG70	898235	1252	918 - 199	2657	Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138,	AR033: 216, AR061: 216, AR104: 181, AR060: 158, AR096: 139, AR055: 122, AR089: 122, AR039: 78, AR052: 57, AR053: 50 S0278: 12, S0144: 12, S0142: 9, H0521: 8, H0638: 5, S0344: 5, L0731: 5, L0755: 3, L0756: 2, H0575: 1, H0009: 1, H0375: 1, H0606: 1, S0438: 1, S0440: 1, S0002: 1, L0763: 1, L0769: 1, L0637: 1, L0806: 1, L0658: 1, L0666: 1, L0355: 1, S0332: 1, H0522: 1, S0028: 1, S0031: 1, S0436: 1 and L0599: 1.				196-228, 11-42

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1243	HABAD39	898401	1253	36 - 848	2658		1, H0263: 1, L0738: 1, H0530: 1, H0046: 1, H0571: 1, H0081: 1, H0578: 1, H0083: 1, H0266: 1, H0615: 1, H0039: 1, H0604: 1, H0031: 1, H0181: 1, H0068: 1, S0036: 1, H0616: 1, H0087: 1, T0004: 1, H0494: 1, S0438: 1, H0529: 1, L0763: 1, L0796: 1, L0761: 1, L0645: 1, L0773: 1, L0364: 1, L0561: 1, L0651: 1, L0653: 1, L0654: 1, L0655: 1, L0629: 1, L0657: 1, L0658: 1, H0725: 1, H0519: 1, H0682: 1, H0684: 1, H0670: 1, S0380: 1, H0518: 1, S0044: 1, S0406: 1, H0555: 1, H0436: 1, S3014: 1, L0749: 1, L0731: 1, L0759: 1, S0260: 1, H0445: 1, H0423: 1 and H0506: 1. AR033: 5, AR053: 4, AR089: 4, AR052: 4, AR060: 3, AR039: 3, AR061: 3, AR055: 3, AR096: 2, AR104: 2 L0731: 12, L0748: 8, L0751: 6, L0769: 4, L0438:						31-58, 65- 81
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1244	HKAKC86	898524	1254	211 - 798	2659	Pro-11 to Leu-36.	1, L0439: 1, L0750: 1, L0780: 1, L0757: 1, H0445: 1, L0597: 1, L0588: 1, L0608: 1, S0192: 1, H0542: 1 and H0422: 1.				37-69, 82- 98, 156- 173, 118- 134
1245	HUKEP18	898588	1255	111 - 509	2660	Pro-3 to Glu-10, Asn-17 to Thr-29, Ala-80 to Glu-86, Ser-96 to Ile-101.	AR039: 7, AR052: 5, AR033: 4, AR089: 4, AR096: 4, AR053: 3, AR104: 3, AR060: 3, AR061: 2, AR055: 2 H0494: 4, H0486: 3, L0809: 2, L0747: 2, H0264: 1, L0550: 1 and L0758: 1.				116-133, 61-77
1246	HL2AE66	898739	1256	192 - 1112	2661	Ala-19 to Gln-29.	AR055: 10, AR061: 8, AR052: 8, AR060: 7, AR033: 5, AR089: 5, AR053: 5, AR104: 4, AR096: 4, AR039: 3 L0758: 2, H0618: 1, H0059: 1, L0789: 1, L0665: 1, L0749: 1 and L0779: 1.	12p			278-294, 2-18, 199- 215

1247	HHGDQ67	898746	1257	15 - 380	2662				H0638: 1, S0356: 1, S0408: 1, H0151: 1, H0575: 1, H0581: 1, H0046: 1, H0050: 1, H0179: 1, H0039: 1, H0135: 1, H0087: 1, H0494: 1, H0561: 1, H0509: 1, H0131: 1, S0144: 1, S0422: 1, S0310: 1, H0593: 1, H0682: 1, H0435: 1, H0658: 1, H0539: 1, H0521: 1, H0522: 1, L0744: 1, L0754: 1, L0596: 1 and H0423: 1, AR104: 442, AR055: 331, AR060: 319, AR033: 211, AR061: 193, AR039: 173, AR089: 148, AR096: 95, AR053: 87, AR052: 0 H0333: 1, H0318: 1 and L0748: 1.				63-80, 106-122	
1248	HHFIS83	898792	1258	329 - 931	2663	Glu-5 to Ile-15, Glu-146 to Asn-151, Ser-177 to Gly-184, Glu-186 to Pro-197.			AR104: 2, AR089: 2, AR033: 1, AR052: 1, AR060: 1, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 L0439: 10, L0483: 8, L0770: 7, S0422: 6, L0752: 6, L0754: 5, S0212: 4, L0769: 4, L0663: 4, L0757: 4, L0759: 4, S0003: 3,				19-42, 62-86, 116-134, 91-110	

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1249	HSUMA53	898943	1259	94 - 912	2664	Lys-96 to Ser-105, Lys-157 to Ala-162, Leu-170 to Glu-175, Ser-222 to Asn-228, Glu-251 to Arg-262.	H0627: 1, L0743: 1, L0748: 1, L0740: 1, L0758: 1, S0436: 1, L0592: 1, S0011: 1, H0653: 1, S0242: 1 and H0721: 1.				16-41, 119-145, 47-64, 77- 94, 104- 120
1250	HHFNI70	899099	1260	135 - 1100	2665		AR104: 115, AR061: 99, AR033: 69, AR055: 67, AR060: 65, AR096: 57, AR089: 53, AR053: 45, AR052: 38, AR039: 35 H0040: 4, L0794: 4, L0748: 3, S0002: 2, L0770: 2, L0789: 2, H0521: 2, H0341: 1, H0393: 1, H0586: 1, T0040: 1, H0013: 1, H0266: 1, H0560: 1, H0641: 1, L0372: 1, L0764: 1, L0790: 1, H0539: 1, L0740: 1, S0436: 1 and H0136: 1.				229-259, 3-20, 28- 44

1251	HLHCH09	899172	1261	208 - 1104	2666	Ile-40 to Val-46, Phe-64 to Thr-69, Ser-98 to Thr-106, Glu-114 to Gly-120, Ser-154 to Phe-167, Thr-175 to Ser-186, Ala-214 to Gly-219, Ser-262 to Ser-275, Pro-283 to Thr-294.				S0280: 2, H0575: 2, S0364: 2, H0056: 2, L0803: 2, H0144: 2, L0780: 2, L0588: 2, L0599: 2, H0170: 1, H0717: 1, H0381: 1, S0116: 1, S0444: 1, S0360: 1, H0728: 1, S0046: 1, H0351: 1, H0411: 1, H0013: 1, H0244: 1, L0105: 1, H0172: 1, H0123: 1, H0050: 1, H0355: 1, H0375: 1, H0328: 1, H0644: 1, H0212: 1, H0124: 1, H0616: 1, H0412: 1, H0413: 1, S0440: 1, L0371: 1, L0770: 1, L0790: 1, H0519: 1, L0779: 1, L0755: 1, L0759: 1, S0260: 1, H0595: 1, S0434: 1, S0436: 1 and H0506: 1.			230-263, 4-32
1252	HNTAP78	899347	1262	1673 - 3	2667	Asp-5 to Glu-11,	AR039: 16, AR053: 16, H0024: 1				512-529,		

1253	HOGEN56	899358	1263	659 - 3	2668	<p>Asp-54 to Gly-59, Val-66 to Trp-75, Asp-141 to Glu-149, Ala-166 to Glu-178, Trp-202 to Pro-211, Ile-311 to Phe-319, Gly-331 to Leu-338.</p>	<p>AR052: 13, AR033: 12, AR089: 9, AR055: 8, AR096: 8, AR060: 6, AR104: 5, AR061: 3, H0251: 3, H0547: 3, H0521: 3, H0266: 2, H0040: 2, S0116: 1, H0580: 1, H0486: 1, H0575: 1, H0318: 1, H0084: 1, H0212: 1, H0059: 1, H0142: 1, S0002: 1, L0662: 1, L0766: 1, L0665: 1, H0519: 1, H0672: 1, S0027: 1, L0743: 1, L0754: 1, L0780: 1, L0591: 1, S0026: 1 and H0665: 1.</p>			213-229
1254	HWLOU33	899644	1264	527 - 1081	2669	<p>Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Ser-133, His-162 to Gln-167.</p>	<p>AR053: 3, AR055: 2, AR089: 2, AR061: 2, AR033: 1, AR052: 1, AR060: 1, AR104: 1, AR096: 1, AR039: 0</p>			167-200, 134-162, 59-78, 31- 51, 95- 112, 7-23
						<p>Pro-6 to Gly-25, His-31 to His-38, Ile-94 to Glu-99, Lys-107 to Thr-115, Lys-175 to Ser-181.</p>	<p>AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1, AR055: 1, AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803:</p>			137-166

1255	HPMKP09	899668	1265	2 - 697	2670	Asp-51 to His-59, Leu-79 to Asp-87, Phe-105 to Met-110, Phe-112 to Asp-123, Gly-136 to Asn-142, Lys-160 to Asp-166, Tyr-193 to Arg-200, Pro-209 to Asp-216.	2, S0374: 2, H0656: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0392: 1, H0427: 1, H0457: 1, H0538: 1, H0547: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0192: 1, H0423: 1 and H0422: 1. AR055: 20, AR061: 12, AR060: 12, AR033: 11, AR104: 11, AR052: 9, AR053: 6, AR089: 6, AR039: 4, AR096: 3 H0156: 55, S0045: 25, L0662: 13, L0754: 12, H0051: 10, H0547: 10, L0439: 10, S0046: 8, L0105: 7, H0623: 7, H0412: 6, H0056: 6, L0755: 6, L0758: 6, H0624: 5, L0740: 5, L0471: 4, L0803: 4, S0328: 4, L0752: 4, L0588: 4, H0171: 3, S0360: 3, L0717: 3, H0545: 3, H0038: 3, H0268: 3, H0413: 3, L0794: 3, L0775: 3, L0647: 3, L0666: 3, L0664: 3, S0146: 3, S0406: 3, L0777: 3, S0260: 3, S0282: 2, H0619: 2, H0575: 2, T0082:					165-193, 1-24
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1256	HDPKJ19	899677	1266	147 - 563	2671			1, L0589: 1, L0593: 1, L0603: 1, H0667: 1, H0543: 1 and H0506: 1. AR039: 5, AR052: 5, AR089: 3, AR060: 3, AR053: 3, AR096: 2, AR104: 2, AR061: 2, AR055: 1, AR033: 1 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.			46-62, 6- 22	
1257	HOEJZ65	900050	1267	164 - 535	2672	Lys-13 to Gly-23, Cys-38 to Asp-43, Gly-48 to Trp-53.		AR060: 62, AR096: 53, AR089: 42, AR104: 36, AR033: 32, AR039: 27, AR055: 18, AR052: 14, AR053: 11, AR061: 10	13q14.3	277900, 600631	51-75	

H0659: 2, S0330: 2, S0380: 2, H0518: 2, H0521: 2, S0406: 2, L0740: 2, L0747: 2, L0750: 2, L0731: 2, L0605: 2, H0423: 2, H0171: 1, H0716: 1, S6024: 1, S0114: 1, L0002: 1, L0785: 1, S0298: 1, H0661: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, H0339: 1, L0717: 1, H0411: 1, H0369: 1, H0455: 1, H0586: 1, H0587: 1, S0414: 1, L0622: 1, H0486: 1, L0586: 1, H0427: 1, H0156: 1, H0042: 1, H0004: 1, H0505: 1, H0581: 1, H0309: 1, H0563: 1, S0050: 1, S0051: 1, H0239: 1, H0355: 1, H0510: 1, H0266: 1, H0179: 1, S0318: 1, S0336: 1, S0316: 1, H0615: 1, H0428: 1, H0039: 1, L0483: 1, H0032: 1, H0316: 1, H0598: 1, H0163: 1, H0412: 1, H0413: 1, H0022: 1, S0464: 1, S0450: 1, H0509: 1, H0646: 1, S0422: 1, L0769: 1, L0638: 1, L0667: 1, L0641: 1, L0764: 1, L0387: 1,

1258	HHASY37	900177	1268	675 - 989	2673			L0766: 1, L0549: 1, L0803: 1, L0375: 1, L0376: 1, L0653: 1, L0776: 1, L0606: 1, L0607: 1, L0512: 1, L0517: 1, L0809: 1, S0053: 1, H0144: 1, L0565: 1, H0689: 1, H0682: 1, H0651: 1, S0378: 1, H0710: 1, S0392: 1, H0626: 1, L0748: 1, L0779: 1, L0755: 1, L0757: 1, H0445: 1, S0308: 1, H0343: 1, L0593: 1, L0362: 1, L0366: 1, S0026: 1, L0097: 1, S0194: 1, S0196: 1, H0422: 1, S0460: 1, H0506: 1 and H0352: 1.				54-72
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1259	HBXBC08	900230	1269	1728 -	2674	Arg-53 to Lys-61,	L0749: 2, H0265: 1, H0716: 1, S0134: 1, S0029: 1, S0418: 1, L0005: 1, S0354: 1, S0358: 1, S0360: 1, H0722: 1, S0132: 1, H0411: 1, H0486: 1, L0017: 1, H0082: 1, H0581: 1, H0085: 1, H0596: 1, H0546: 1, H0046: 1, H0457: 1, H0150: 1, H0009: 1, L0157: 1, H0563: 1, H0123: 1, H0620: 1, H0024: 1, H0373: 1, H0188: 1, H0687: 1, S0250: 1, H0039: 1, L0483: 1, H0553: 1, H0628: 1, H0169: 1, H0124: 1, H0068: 1, H0616: 1, H0087: 1, S0440: 1, S0144: 1, S0344: 1, L0764: 1, L0363: 1, L0766: 1, L0803: 1, L0378: 1, L0806: 1, L0776: 1, L0659: 1, L0809: 1, L0664: 1, L0665: 1, S0216: 1, H0547: 1, H0690: 1, H0521: 1, H0478: 1, L0741: 1, L0744: 1, L0754: 1, L0750: 1, L0779: 1, L0755: 1, L0758: 1, H0445: 1, L0597: 1, S0276: 1 and H0352: 1.	AR052: 8, AR060: 7,					62-79,
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46	Gly-97 to Gln-102, Val-141 to Thr-150, Asp-201 to Met-212, Glu-214 to Ser-222.	AR061: 7, AR089: 4, AR104: 3, AR096: 3, AR053: 1, AR033: 1, AR055: 1, AR039: 0 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2, L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and	330-346, 411-427, 452-468, 239-255, 152-168
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1260	HBXCF11	900775	1270	63 - 1421	2675	<p>Pro-30 to Thr-36, Lys-185 to Cys-193, Ala-224 to Asn-229, Ile-252 to Gly-260, Thr-280 to Asn-288, Ser-301 to Gln-308, Ser-332 to Asn-342, Gly-357 to Ser-364, Asp-376 to Val-382, Glu-411 to Gln-419.</p>	<p>H0008: 1, AR055: 2, AR033: 2, AR096: 2, AR060: 1, AR061: 1, AR052: 1, AR039: 1, AR089: 1, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366: 2, H0542: 2, S6024: 1, S0116: 1, H0305: 1, H0580: 1, S0278: 1, H0437: 1, S6014: 1, H0013: 1, H0575: 1, S0010: 1, S0665: 1, S0346: 1, S0474: 1, H0581: 1, H0052: 1, L0471: 1, H0014: 1, H0051: 1, S0003: 1, H0644: 1, L0142: 1, S0364: 1, H0591: 1, H0488: 1, H0494: 1, H0560: 1, S0150: 1, H0529: 1, L0662: 1, L0794: 1, L0804: 1, L0789: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, L0602:</p>				<p>34-62, 88- 112, 147- 177, 311- 335, 122- 148, 195- 223, 428- 448, 229- 249, 385- 404, 1-17</p>
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1261	HKIXQ06	900956	1271	57 - 566	2676		1, H0518: 1, S0152: 1, L0612: 1, S0390: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0308: 1, L0589: 1, L0595: 1, H0653: 1, H0667: 1 and S0194: 1.				141-165, 113-129
1262	HUFDB55	900993	1272	30 - 1619	2677		AR052: 9, AR039: 8, AR033: 8, AR104: 8, AR053: 8, AR060: 8, AR055: 8, AR089: 7, AR096: 7, AR061: 7 L0766: 7, H0441: 3, L0748: 3, H0327: 2, L0787: 2, L0749: 2, L0780: 2, L0785: 1, S0360: 1, H0728: 1, H0599: 1, S0010: 1, H0375: 1, H0674: 1, L0770: 1, L0769: 1, L0761: 1, L0794: 1, L0788: 1, S0052: 1, H0658: 1, L0750: 1, L0731: 1, L0759: 1 and S0196: 1.				425-458
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1263	HFKLY39	901208	1273	172 - 783	2678	Asn-100 to Gly-105, Asn-114 to Leu-126, Ser-133 to Thr-139, Lys-146 to Cys-151, Tyr-188 to Pro-200.	2, S0406: 2, S0408: 1, H0085: 1, H0204: 1, H0597: 1, L0794: 1, L0776: 1, L0518: 1, L0789: 1 and L0596: 1. AR033: 19, AR104: 16, AR096: 9, AR089: 8, AR052: 8, AR039: 8, AR053: 7, AR055: 6, AR060: 4, AR061: 3 L0439: 19, L0776: 6, L0438: 5, S0360: 3, S0408: 3, H0620: 3, S0214: 3, L0649: 3, L0805: 3, L0663: 3, L0665: 3, L0777: 3, H0656: 2, S0376: 2, H0046: 2, S0003: 2, L0770: 2, L0771: 2, L0773: 2, L0803: 2, L0666: 2, S0406: 2, H0478: 2, L0755: 2, L0759: 2, S0116: 1, H0341: 1, H0662: 1, S0356: 1, S0045: 1, H0619: 1, H0393: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, L0022: 1, H0575: 1, S0010: 1, S0346: 1, H0505: 1, H0421: 1, H0052: 1, H0263: 1, H0596: 1, T0110: 1, H0457: 1, L0471: 1, H0375:				32-70, 67- 99, 10-42, 167-183
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1264	HUFAY01	901287	1274	32 - 1660	2679	Ser-4 to Arg-11, Ser-13 to Gly-18, Val-88 to Asp-103, Pro-105 to Ser-110, Arg-129 to Lys-135, Pro-151 to Gly-168, Ala-172 to Ser-177, Pro-185 to Lys-190, Asn-200 to Phe-205, Gln-214 to Tyr-220, Arg-245 to Asp-250,	AR096: 4, AR052: 4, AR053: 4, AR089: 4, AR055: 3, AR104: 3, AR033: 2, AR061: 2, AR060: 2, AR039: 0 S0020: 6, L0749: 5, L0803: 4, S0356: 3, S0358: 3, L0790: 3, L0777: 3, H0556: 2, H0656: 2, S0442: 2, H0580: 2, H0581: 2, L0771: 2, L0649: 2, L0774:	1, T0006: 1, H0644: 1, H0673: 1, L0456: 1, S0036: 1, H0040: 1, H0100: 1, S0440: 1, H0641: 1, H0646: 1, S0142: 1, S0422: 1, L0372: 1, L0646: 1, L0800: 1, L0764: 1, L0521: 1, L0363: 1, L0768: 1, L0364: 1, L0794: 1, L0655: 1, L0659: 1, L0809: 1, L0529: 1, L0789: 1, S0374: 1, L0352: 1, H0658: 1, S0330: 1, S0380: 1, S0028: 1, L0743: 1, L0748: 1, L0754: 1, L0749: 1, L0750: 1, L0779: 1, S0434: 1, L0596: 1, L0592: 1, L0594: 1, S0106: 1, H0542: 1 and H0506: 1.					394-423, 446-470, 262-283, 338-356, 366-385, 291-307, 475-491, 20-36
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1265	HAHCK43	901386	1275	28 - 522	2680	Gln-24 to Gly-29, Leu-43 to Ser-48.	Ser-361 to Lys-366, Ser-387 to Ala-392, Gln-425 to Asp-431, Tyr-494 to Tyr-504, Leu-507 to Val-515.	2, L0659: 2, L0666: 2, L0665: 2, H0547: 2, H0521: 2, L0748: 2, S0196: 2, H0542: 2, H0543: 2, H0423: 2, H0716: 1, S0134: 1, H0341: 1, H0458: 1, S0476: 1, H0619: 1, H0645: 1, S0278: 1, H0261: 1, H0592: 1, H0587: 1, H0486: 1, T0114: 1, S0280: 1, H0156: 1, H0706: 1, H0618: 1, H0253: 1, T0048: 1, H0546: 1, H0024: 1, H0510: 1, H0416: 1, H0687: 1, H0424: 1, H0418: 1, H0674: 1, H0625: 1, S0440: 1, H0646: 1, S0426: 1, L0770: 1, L0637: 1, L5575: 1, L5566: 1, L0761: 1, L0662: 1, L0364: 1, L0794: 1, L0805: 1, L0776: 1, L0655: 1, L0518: 1, L0783: 1, L0809: 1, L0543: 1, H0723: 1, H0682: 1, H0658: 1, S0378: 1, S0406: 1, L0439: 1, L0740: 1, L0758: 1, H0707: 1, S0194: 1, H0677: 1 and H0506: 1.				51-73, 113-129
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									L0659: 1, L0382: 1, L0666: 1, L0665: 1, H0702: 1, L0565: 1, H0520: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, H0518: 1, H0521: 1, S0406: 1, H0732: 1, S0390: 1, S0037: 1, S0027: 1, L0749: 1, L0750: 1, L0779: 1, L0780: 1, L0752: 1, H0445: 1, H0707: 1 and S0446: 1.				
1266	HETHC61	901421	1276	82 - 819	2681	Arg-24 to Leu-33, Lys-42 to Arg-48, Asp-65 to Thr-70, Glu-111 to Leu-119, Gln-129 to Ser-138, Ser-153 to Trp-158, Pro-163 to Asp-175.			AR055: 5, AR061: 4, AR052: 4, AR060: 4, AR089: 4, AR033: 4, AR053: 2, AR039: 2, AR104: 2, AR096: 2, H0046: 3, H0483: 2, S0040: 1, S0356: 1, S0360: 1, S0476: 1, S0222: 1, L0021: 1, H0024: 1, H0494: 1, S0466: 1, S0344: 1, L0761: 1, L0766: 1, L0388: 1, H0593: 1, L0439: 1 and L0757: 1.				220-246, 1-22
1267	HNSME80	901436	1277	251 - 1474	2682	Tyr-19 to Gly-27, Glu-39 to Arg-46, Thr-106 to Glu-112, Gln-138 to Thr-146, Ser-180 to Lys-190,			AR039: 32, AR033: 15, AR053: 14, AR104: 13, AR089: 13, AR096: 12, AR052: 12, AR060: 9, AR055: 8, AR061: 5				275-293, 308-324, 78-94, 112-128

1268	H6EDK67	901529	1278	92 - 667	2683	Lys-23 to Arg-28, Glu-115 to Asp-120, Lys-126 to Asp-149.	Asp-199 to Phe-212, Phe-220 to Ser-225, Lys-346 to Phe-358.	L0777: 5, S0418: 3, H0046: 3, S0422: 3, L0771: 3, L0655: 3, L0758: 3, L0646: 2, L0438: 2, L0362: 2, H0506: 2, S0624: 1, H0657: 1, L0415: 1, H0341: 1, H0661: 1, H0619: 1, H0645: 1, H0393: 1, S0222: 1, H0586: 1, H0497: 1, H0427: 1, H0041: 1, H0009: 1, L0471: 1, T0010: 1, H0622: 1, H0553: 1, H0628: 1, S0036: 1, H0591: 1, H0038: 1, H0040: 1, H0551: 1, H0623: 1, H0100: 1, T0042: 1, H0625: 1, S0464: 1, H0647: 1, L0667: 1, L0772: 1, L0803: 1, L0657: 1, L0666: 1, H0698: 1, H0691: 1, H0666: 1, H0478: 1, L0749: 1, L0750: 1, L0759: 1, S0031: 1, S0436: 1, L0592: 1, L0608: 1, L0361: 1, H0665: 1, H0667: 1 and S0242: 1.	AR089: 29, AR052: 20, AR033: 17, AR053: 16, AR104: 11, AR096: 10, AR060: 10, AR055: 9, AR061: 6, AR039: 4	AR089: 29, AR052: 20, AR033: 17, AR053: 16, AR104: 11, AR096: 10, AR060: 10, AR055: 9, AR061: 6, AR039: 4	36-55, 171-187
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1269	HMSCY51	901561	1279	72 - 1448	2684	Lys-70 to Gly-76, Glu-121 to Leu-137,	L0777: 5, S0436: 5, S0116: 3, L0805: 3, L0809: 3, H0696: 3, H0423: 3, S0282: 2, S0354: 2, H0083: 2, H0316: 2, L0763: 2, L0767: 2, L0776: 2, S0406: 2, L0779: 2, S0114: 1, H0657: 1, H0656: 1, S0358: 1, S0444: 1, S0360: 1, H0340: 1, S0046: 1, H0619: 1, H0455: 1, H0333: 1, H0574: 1, H0559: 1, T0109: 1, H0156: 1, L0021: 1, T0074: 1, H0318: 1, S0474: 1, S0049: 1, H0327: 1, H0530: 1, H0615: 1, H0553: 1, H0673: 1, H0708: 1, H0059: 1, L0065: 1, S0438: 1, H0207: 1, S0422: 1, L0520: 1, L0769: 1, L0761: 1, L0521: 1, L0774: 1, L0655: 1, L0659: 1, L0526: 1, L0793: 1, L0666: 1, L0664: 1, H0659: 1, H0518: 1, S0176: 1, H0478: 1, L0748: 1, L0750: 1, L0755: 1, L0731: 1, L0608: 1, L0362: 1, S0026: 1 and S0242: 1.	AR053: 16, AR096: 16, AR060: 13, AR052: 13,					297-315, 256-278,
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Ser-242 to Asp-247, Thr-359 to Gln-373.	AR055: 12, AR061: 10, AR104: 10, AR089: 10, AR033: 8, AR039: 6 L0766: 11, H0556: 8, L0731: 6, H0265: 4, H0009: 3, H0083: 3, H0124: 3, H0509: 3, L0752: 3, S0116: 2, H0638: 2, S0356: 2, S0354: 2, S0408: 2, S0346: 2, H0560: 2, S0002: 2, L0805: 2, L0659: 2, L0438: 2, S0126: 2, L0740: 2, L0747: 2, L0757: 2, L0758: 2, L0591: 2, L0615: 1, S0114: 1, H0657: 1, H0341: 1, H0483: 1, H0255: 1, H0663: 1, H0664: 1, S0418: 1, S0444: 1, S0360: 1, H0675: 1, S0410: 1, S0045: 1, H0574: 1, H0486: 1, T0039: 1, H0013: 1, H0004: 1, H0318: 1, H0581: 1, H0544: 1, H0545: 1, S0388: 1, H0107: 1, H0355: 1, H0510: 1, H0271: 1, L0194: 1, H0213: 1, H0166: 1, H0169: 1, H0135: 1, H0163: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, S0016: 1, S0440: 1, H0633: 1.	318-337, 380-396, 405-421, 443-459
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1270	HTXMM2 7	901592	1280	721 - 245	2685	Arg-29 to Ile-39, Pro-51 to Pro-57, Asn-112 to Thr-118.	H0647: 1, S0144: 1, S0344: 1, L0762: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0773: 1, L0662: 1, L0364: 1, L0803: 1, L0774: 1, L0378: 1, L0806: 1, L0653: 1, L0807: 1, L0518: 1, L0783: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0593: 1, H0696: 1, H0704: 1, S0406: 1, S0392: 1, H0627: 1, S0037: 1, S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1.	H0647: 1, S0144: 1, S0344: 1, L0762: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0773: 1, L0662: 1, L0364: 1, L0803: 1, L0774: 1, L0378: 1, L0806: 1, L0653: 1, L0807: 1, L0518: 1, L0783: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0593: 1, H0696: 1, H0704: 1, S0406: 1, S0392: 1, H0627: 1, S0037: 1, S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1.				93-109, 113-129
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1271	HTXPO61	901690	1281	83 - 853	2686	<p>L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1.</p> <p>AR052: 4, AR055: 4, AR061: 4, AR033: 4, AR053: 3, AR060: 3, AR089: 3, AR096: 2, AR039: 1, AR104: 1, L0754: 25, H0556: 9, L0439: 5, L0745: 5, L0755: 5, L0764: 4, L0744: 4, H0046: 3, H0617: 3, L0794: 3, L0766: 3, L0666: 3.</p>					<p>74-101, 47-72, 155-175, 16-32, 182-198</p>
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1272	HLWAM6 2	902115	1282	95 - 895	2687	Lys-14 to Ala-21, Ala-39 to Gly-52.	H0265: 2, H0402: 2, S0356: 2, H0052: 2, H0622: 2, H0644: 2, H0616: 2, L0372: 2, H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0777: 2, L0731: 2, L0758: 2, L0588: 2, L0594: 2, H0295: 1, H0381: 1, H0661: 1, S0418: 1, S0410: 1, S0045: 1, H0614: 1, H0333: 1, H0643: 1, H0486: 1, H0042: 1, T0082: 1, H0178: 1, H0014: 1, H0083: 1, H0356: 1, H0030: 1, H0553: 1, L0055: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, H0412: 1, H0059: 1, T0042: 1, H0494: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L0796: 1, L0651: 1, L0659: 1, L0565: 1, H0520: 1, H0658: 1, H0522: 1, L0741: 1, L0749: 1, L0779: 1 and S0452: 1. AR039: 31, AR104: 27, AR033: 25, AR053: 17, AR096: 13, AR089: 12, AR052: 11, AR060: 9, AR055: 9, AR061: 6						52-82
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1273	HFXLK46	902129	1283	175 - 846	2688	Arg-23 to Ile-31, Ala-112 to Trp-119.	AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 S0028: 6, S0260: 4, S0282: 3, L0005: 2, L0476: 2, S0278: 2, H0318: 2, S0144: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0049: 1, H0416: 1, H0617: 1, S0036: 1, H0164: 1, S0150: 1, S0428: 1, S0216: 1, S0044: 1, S0146: 1 and S0031: 1.			41-69, 1- 21, 62-79, 149-165, 82-98
1274	HBMXX78	902144	1284	490 - 816	2689	Lys-12 to Phe-17, Leu-67 to Trp-81.	AR096: 7, AR033: 7, AR089: 6, AR060: 5, AR053: 5, AR052: 5, AR055: 4, AR104: 3, AR061: 2, AR039: 1 L0754: 7, L0599: 4, L0805: 3, H0716: 2, S0046: 2, H0545: 2, H0615: 2, H0529: 2, L0794: 2, H0539: 2, H0478: 2, L0777: 2, L0752: 2, H0170: 1, S0116: 1, S0360: 1, S0408: 1, H0728: 1, H0351: 1, H0331: 1, H0156: 1, H0599: 1,			79-98

1275	HE8TF48	902236	1285	205 - 1476	2690	Met-1 to Cys-6, Ala-41 to Tyr-49, Lys-76 to Lys-84, Ser-197 to Lys-208, Pro-213 to Thr-220, Gln-286 to Lys-294, Ala-375 to Arg-391, Leu-397 to Thr-423.	H0575: 1, T0082: 1, H0581: 1, H0230: 1, H0196: 1, H0350: 1, S0051: 1, H0266: 1, H0553: 1, H0090: 1, H0647: 1, S0426: 1, L0643: 1, L0363: 1, L0766: 1, S0374: 1, S0126: 1, H0522: 1, S0390: 1, L0740: 1, L0756: 1, L0753: 1, L0755: 1 and S0026: 1.				51-76, 302-326, 18-37, 331-353, 108-125, 147-167, 228-245, 125-141, 355-372, 268-284
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1276	HMUAL57	902291	1286	181 - 957	2691	Gln-180 to His-187, Arg-191 to Lys-196.	S0010: 1, H0052: 1, H0596: 1, H0327: 1, H0178: 1, H0355: 1, H0266: 1, H0328: 1, H0268: 1, H0056: 1, H0623: 1, S0150: 1, S0142: 1, S0344: 1, UNKWN: 1, L0646: 1, L0764: 1, L0363: 1, L0767: 1, L0386: 1, L0774: 1, L0775: 1, L0659: 1, H0660: 1, H0648: 1, S0328: 1, S0152: 1, H0522: 1, S0392: 1, S0028: 1, L0751: 1, H0445: 1 and L0599: 1. AR039: 34, AR052: 21, AR104: 20, AR096: 17, AR053: 17, AR033: 15, AR089: 15, AR060: 12, AR055: 10, AR061: 9 S0364: 1, H0529: 1, L0764: 1, L0806: 1, L0657: 1, L0809: 1, H0690: 1 and S0152: 1.				222-241, 122-147, 24-42, 66- 85, 202- 218, 149- 165
1277	HWCAD85	902684	1287	250 - 1182	2692	Pro-6 to Gly-25, Lys-37 to Ala-55, Phe-107 to Phe-117, Ser-133 to Pro-139, Ile-149 to Cys-156, Gln-169 to Ile-176,	AR060: 8, AR096: 4, AR052: 4, AR053: 2, AR039: 2, AR033: 2, AR089: 2, AR061: 2, AR055: 1, AR104: 1 H0521: 4, L0599: 4,				223-239, 71-87, 269-285, 183-199

1278	HLWCJ37	902841	1288	295 - 954	2693	Leu-301 to Pro-310.	T0049: 3, L0659: 3, H0539: 3, L0748: 3, L0755: 3, H0069: 2, H0038: 2, S0144: 2, S0142: 2, S0344: 2, L0770: 2, L0662: 2, L0775: 2, L0744: 2, L0752: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0254: 1, H0402: 1, H0638: 1, S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0581: 1, H0310: 1, H0687: 1, S0294: 1, S0426: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0790: 1, L0666: 1, L0665: 1, S0126: 1, S0152: 1, H0522: 1, L0779: 1, L0777: 1, H0445: 1, S0276: 1 and H0423: 1.			
						Ser-70 to Asn-76, Pro-144 to Gly-157.	AR039: 12, AR096: 9, AR089: 9, AR053: 8, AR033: 7, AR104: 6, AR052: 6, AR060: 6, AR055: 6, AR061: 3 L0755: 8, L0804: 5, L0805: 4, L0777: 4, H0014: 3, S0360: 2, H0581: 2, H0553: 2, S0344: 2, S0374: 2, H0672: 2, L0362: 2, H0662: 1, S0356: 1, S0444:			157-187, 44-65, 184-202, 87-103, 121-138

1279	HUFGDC04	903101	1289	120 - 668	2694	Tyr-164 to Leu-169, Thr-175 to Lys-183.	1, H0580: 1, S0278: 1, H0586: 1, H0318: 1, H0251: 1, S0466: 1, S0438: 1, L0763: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0790: 1, S0328: 1, H0521: 1, L0748: 1, L0749: 1, H0595: 1 and S0424: 1. AR089: 2, AR033: 2, AR096: 2, AR055: 2, AR104: 2, AR052: 1, AR061: 1, AR060: 1, AR053: 0, AR039: 0 L0748: 12, L0777: 5, L0769: 4, L0774: 4, L0740: 4, H0556: 3, H0619: 3, H0494: 3, S0126: 3, L0754: 3, H0052: 2, H0620: 2, H0024: 2, H0617: 2, L0770: 2, H0521: 2, S0206: 2, L0591: 2, H0667: 2, H0265: 1, H0713: 1, H0717: 1, H0295: 1, T0049: 1, H0341: 1, H0661: 1, S0420: 1, S0408: 1, S0410: 1, S0046: 1, S0278: 1, H0441: 1, T0039: 1, H0013: 1, H0156: 1, H0309: 1, H0544: 1, H0046: 1, H0099: 1, S0250: 1, H0087: 1, T0069: 1,					135-160, 98-117, 38-59, 75- 91
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1280	HHEXO15	903309	1290	137 - 547	2695	Leu-29 to Thr-36, Phe-85 to Asn-96.	S0438: 1, S0440: 1, H0131: 1, S0422: 1, L0369: 1, L0520: 1, L0772: 1, L0641: 1, L0764: 1, L0803: 1, L0775: 1, L0806: 1, L0805: 1, L0384: 1, L0666: 1, S0374: 1, H0682: 1, H0658: 1, H0696: 1, S0392: 1, S3014: 1, S0027: 1, S0028: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0592: 1, H0665: 1, H0542: 1, H0543: 1 and H0506: 1.				48-80, 106-125, 37-53
							AR039: 34, AR104: 27, AR033: 21, AR096: 20, AR089: 15, AR053: 14, AR061: 14, AR060: 13, AR052: 13, AR055: 13 S0278: 15, S0126: 13, L0742: 13, L0758: 10, L0751: 8, L0754: 8, L0747: 8, L0748: 7, H0305: 6, S0360: 6, H0545: 6, L0776: 6, L0744: 6, H0484: 5, H0638: 5, S0007: 5, S0045: 5, H0530: 5, H0617: 5, S0144: 5, L0766: 5, L0805:				

				2, L0646: 2, L0378: 2, L0806: 2, L0517: 2, S0052: 2, H0670: 2, H0710: 2, H0522: 2, H0696: 2, L0745: 2, L0756: 2, L0753: 2, L0755: 2, L0731: 2, S0434: 2, S0436: 2, L0588: 2, H0653: 2, H0667: 2, S0194: 2, S0196: 2, H0423: 2, H0352: 2, H0170: 1, H0171: 1, H0265: 1, H0685: 1, H0713: 1, H0716: 1, H0294: 1, S0114: 1, L0002: 1, H0656: 1, H0381: 1, H0483: 1, H0402: 1, H0589: 1, H0125: 1, H0675: 1, H0728: 1, S0132: 1, S6022: 1, S0222: 1, H0392: 1, H0607: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, T0114: 1, S0280: 1, T0082: 1, H0618: 1, H0253: 1, S0010: 1, H0581: 1, H0251: 1, H0309: 1, H0234: 1, H0327: 1, H0546: 1, H0178: 1, H0567: 1, H0081: 1, H0012: 1, H0024: 1, H0083: 1, H0594: 1, H0266: 1, H0179: 1, H0416: 1, H0188: 1, H0290: 1, H0292: 1, S0003:								
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1281	HE8NI05	903697	1291	190 - 609	2696	Pro-17 to His-27, Pro-29 to Asn-36, Pro-42 to Cys-52,	1, H0252: 1, H0328: 1, S0368: 1, H0604: 1, H0553: 1, H0673: 1, H0708: 1, H0316: 1, H0598: 1, H0040: 1, H0063: 1, H0264: 1, H0413: 1, S0038: 1, T0041: 1, H0560: 1, H0625: 1, S0464: 1, S0438: 1, S0440: 1, H0130: 1, H0641: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0800: 1, L0642: 1, L0644: 1, L0645: 1, L0521: 1, L0364: 1, L5568: 1, L0523: 1, L0653: 1, L0807: 1, L0527: 1, L0636: 1, L0782: 1, L0809: 1, L0529: 1, L0647: 1, L0664: 1, S0428: 1, S0216: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, S0378: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S3012: 1, S0206: 1, L0740: 1, L0749: 1, L0779: 1, L0759: 1, L0605: 1, L0608: 1, S0106: 1, H0216: 1, S0192: 1 and S0276: 1.				79-109
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1282	H2CBP53	903718	1292	73 - 1290	2697	Glu-3 to Arg-12, Glu-18 to Gln-42, Pro-158 to Asp-164, Asp-170 to Glu-175.	Asp-60 to Asn-73.	AR061: 2, AR104: 1, AR096: 1, AR039: 1 L0666: 3, L0776: 2, L0750: 2, S0222: 1, H0497: 1, H0013: 1, H0009: 1, S0214: 1, H0124: 1, H0090: 1, L0792: 1, H0547: 1, H0519: 1, H0659: 1, L0777: 1, L0758: 1, L0589: 1 and L0608: 1.	1q21.2-q22	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	71-98, 363-388, 110-126, 254-270, 282-298, 48-64, 305-321, 132-148	
1283	HDPPP18	903850	1293	707 - 1249	2698	Glu-52 to Thr-57, Lys-112 to Lys-117.	Glu-52 to Thr-57, Lys-112 to Lys-117.	AR039: 38, AR089: 19, AR096: 19, AR053: 19,			22-40, 139-162,	

								AR033: 17, AR104: 16, AR052: 13, AR060: 12, AR055: 11, AR061: 8 H0553: 2, H0521: 2, H0580: 1, H0641: 1 and H0522: 1.				116-136, 89-109
1284	HSLFD86	903930	1294	1468 - 443	2699	Asp-58 to Glu-64, Asp-162 to Gly-167.		AR096: 3, AR089: 1, AR060: 1, AR061: 1, AR055: 1, AR052: 1, AR039: 1, AR033: 1, AR053: 1, AR104: 0 S0028: 3, H0295: 1, S0045: 1, H0632: 1, S0050: 1, H0271: 1, H0100: 1, S0150: 1 and S0052: 1.				107-123
1285	HTLDD85	904049	1295	125 - 868	2700	Gly-8 to Trp-73, Leu-75 to Lys-80, Arg-169 to Met-174, Phe-203 to Lys-210, Pro-216 to Lys-248.		AR055: 17, AR039: 11, AR053: 9, AR060: 9, AR052: 9, AR033: 8, AR089: 7, AR061: 7, AR096: 6, AR104: 4 H0616: 14, H0038: 12, H0618: 6, H0253: 5, L0758: 5, L0768: 4, H0411: 2, L0779: 2, L0151: 1, L0697: 1 and S0398: 1.				173-198, 148-170, 91-113, 112-133
1286	HDTIZ68	904058	1296	167 - 1021	2701	Met-1 to Arg-11, Leu-16 to Lys-23, Pro-32 to Gly-45, Pro-118 to Ala-134.		AR096: 6, AR052: 3, AR053: 3, AR033: 2, AR089: 2, AR060: 2, AR055: 2, AR104: 1.	13q32-34	153900, 156600, 180381, 227500.	43-71, 216-232	

1287	HDAAV92	904116	1297	92 - 727	2702	Gly-137 to Val-142, Ser-153 to Ser-162, Leu-178 to Asn-183, Met-236 to Tyr-246.	AR061: 1, AR039: 0 H0423: 6, H0638: 3, H0560: 3, H0529: 3, H0521: 3, H0445: 3, L0362: 3, S0356: 2, S0358: 2, H0486: 2, H0581: 2, L0695: 2, H0412: 2, L0770: 2, L5568: 2, S0328: 2, L0748: 2, L0756: 2, L0777: 2, H0422: 2, H0624: 1, S0116: 1, H0341: 1, H0402: 1, H0125: 1, S0360: 1, H0574: 1, L0105: 1, H0318: 1, S0474: 1, H0421: 1, L0041: 1, H0179: 1, H0688: 1, H0622: 1, H0038: 1, H0488: 1, H0641: 1, S0142: 1, S0344: 1, L0369: 1, L0794: 1, L0766: 1, L0804: 1, L0784: 1, L0776: 1, L0663: 1, S0428: 1, H0435: 1, H0522: 1, H0134: 1, S0028: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, H0343: 1, S0196: 1 and H0542: 1.	227600, 232000, 238970, 256731, 602085		
						His-13 to His-34, Lys-113 to Leu-122, Gly-151 to Trp-161.	AR039: 9, AR052: 5, AR053: 4, AR096: 3, AR089: 2, AR061: 2, AR055: 2, AR060: 2		66-90, 46- 67	

				AR033: 2, AR104: 1 H0046: 17, S0358: 9, L0748: 9, H0590: 8, L0766: 7, H0574: 6, L0764: 6, L0659: 6, L0663: 6, L0749: 5, S0442: 4, L0755: 4, L0601: 4, S0360: 3, H0036: 3, L0761: 3, L0794: 3, H0657: 2, S0444: 2, S0408: 2, H0263: 2, H0510: 2, H0622: 2, H0560: 2, S0002: 2, H0529: 2, L0372: 2, L0800: 2, L0649: 2, L0803: 2, L0791: 2, L0666: 2, S0374: 2, H0690: 2, L0777: 2, L0596: 2, H0423: 2, H0556: 1, H0713: 1, H0583: 1, H0650: 1, S0354: 1, S0376: 1, H0580: 1, H0619: 1, H0497: 1, H0632: 1, H0069: 1, L0022: 1, H0575: 1, H0014: 1, H0266: 1, H0271: 1, H0416: 1, S0003: 1, H0111: 1, H0038: 1, H0616: 1, H0625: 1, H0561: 1, S0440: 1, H0646: 1, S0426: 1, L0770: 1, L0769: 1, L0667: 1, L0772: 1, L0373: 1, L0645: 1, L0768: 1, L0533: 1, L0804: 1,								
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1288	HDPGH33	904204	1298	257 - 1186	2703	Ser-44 to Ser-64, Glu-84 to Ile-90, Pro-93 to Gly-108, Leu-122 to Thr-129, Ser-183 to Gly-188, Thr-191 to Ser-208, Pro-214 to Thr-223, Arg-283 to Gly-288, Asp-293 to Ser-310.	L0775: 1, L0527: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, L0751: 1, L0747: 1, L0750: 1, L0756: 1, L0780: 1, H0707: 1, S0011: 1 and H0422: 1. AR052: 3, AR096: 1, AR055: 1, AR039: 1, AR089: 1, AR060: 0, AR061: 0, AR104: 0, AR053: 0, AR033: 0 S0410: 5, S0358: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, H0638: 2, S0354: 2, S0408: 2, H0580: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, S0376: 1, H0586: 1, H0485: 1, H0013: 1, S0003: 1, H0039: 1, T0006: 1, S0386: 1, H0560: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and					252-283, 4-20
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1289	HHEPR52	904360	1299	146 - 568	2704	Glu-19 to Glu-25, Pro-35 to Ser-40, Asn-45 to Asn-54, Arg-79 to Thr-86, Pro-119 to Glu-130.	H0653: 1. AR033: 3, AR061: 3, AR055: 2, AR052: 2, AR089: 2, AR053: 2, AR060: 2, AR104: 2, AR096: 2, AR039: 2 L0777: 10, L0758: 9, S0436: 8, L0438: 7, L0748: 7, L0666: 6, H0520: 6, L0439: 6, S0358: 5, L0659: 5, L0809: 5, H0547: 5, L0740: 5, L0747: 5, L0750: 5, H0046: 4, H0135: 4, L0771: 4, L0665: 4, H0660: 4, H0539: 4, L0751: 4, L0749: 4, L0759: 4, H0545: 3, H0009: 3, H0050: 3, H0012: 3, H0620: 3, H0266: 3, L0769: 3, L0764: 3, L0766: 3, L0657: 3, L0663: 3, L0752: 3, H0624: 2, H0341: 2, H0661: 2, S0420: 2, S0360: 2, S0408: 2, H0586: 2, S0005: 2, H0052: 2, L0471: 2, H0024: 2, H0188: 2, H0286: 2, H0182: 2, H0040: 2, H0087: 2, H0551: 2, H0059: 2, H0100: 2, H0494: 2, S0440: 2, L0369: 2, L0773: 2, L0648:				83-116, 1- 19
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